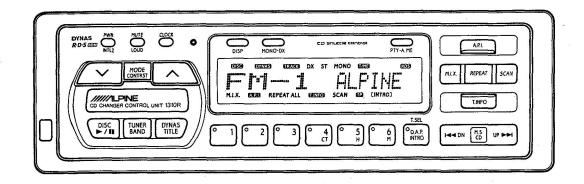


Digital FM/MW/LW/RDS Tuner

CD Shuttle Controller

This model is Component System Unit of Tuner Unit and Display Unit.





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Specifications

<fm radio=""></fm>	407+04841-
Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~ 108IVIAZ
30dB S / N Usable Sensitivity (Mono at 98.1MHz)	17.2dBf
- 3dB Limiting Sensitivity (at 98.1MHz)	19.2dBf
S/N Ratio (Stereo at 98.1MHz)	500B
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	6008
Distortion (input 60dBµ at 98.1MHz)	
Frequency Response (at 98.1MHz Ref. 400Hz)	100HZ: 0 ± 3dB
	0kHz:-12±3dB 20dB
Stereo Separation (at 1000Hz)	200b
Residual Noise (at 98.1MHz Ref. 400Hz)	30±5dB
PS Sensitivity (at 98.1MHz)	36.2dBf
TP Sensitivity (at 98.1MHz)	36.2dBf
<mw radio=""></mw>	450kHz
Intermediate Frequency	450KHZ
Frequency Range	34dB
Sensitivity 20dB S / N (at 999kHz)	340b
S/N Ratio (at 999kHz)	44ub
Image Rejection (at 1,404kHz)	60dB
IF Rejection (at 603kHz)	1 5%
Distortion (at 999kHz)	100Hz:-3+4dB
Frequency Response (at 999kHz Ref. 400Hz)	Iz : - 12+6 - 12dB
TALL	2,-1210-1200
CLIM RADIO	
<lw radio=""> Intermediate Frequency</lw>	450kHz
Frequency Range	. 153~281kHz
Sensitivity 20dB S / N (at 216kHz)	41dB
S / N Ratio (at 216kHz)	42dB
Image Rejection (at 270kHz)	40dB
IF Rejection (at 162kHz)	50dB
Distortion (at 216kHz)	1.5%
Frequency Response (at 216kHz Ref. 400Hz)	100Hz:-3±4dB
4kH	lz : - 12 + 6 - 12dB
<general></general>	-
Power Supply	DC14.4V
Load Impedance	10Konm
Pre Output Voltage (400Hz)	500mv
Semiconductors	ner Diodes, 1FET
Display Unit: 5 IC's, 4 Train	nsistors, 4 Diodes
Dimensions (WARAD)	3.4×5.1×120 mm
Front Escutcheon: 18	
Display Unit: 171	
Weight	iuner Unit:800g
Di Di	isplay Unit: 250g

Note: Due to continuing product improvement, specifications and designs are subject to change without notice.

ERROR INDICATION FOR CD SHUTTLE

INDICATION	CAUSE	SOLUTION		
	Disc-change malfunction.	Consult your Alpine Dealer.		
ERROR-1	Disc-change malfunction.	Press the magazine eject button and pull out the Magazine. Check for error indication. Insert the magazine again. If the magazine can not be pulled out, consult your Alpine dealer.		
	Magazine ejection impossible.	Press the magazine eject button. If the magazine does not eject, consult your Alpine Dealer.		
ERROR-2	Disc is in player mechanism.	Press the magazine eject button, and insert an empty magazine.		
нот	High temperature.	Will disappear when the temperature returns to operation range.		
EEEE	Misconnection or disconnection of CD Shuttle.	Check connection between CD Shuttle and control unit.		

INDICATION FOR 1310R

INDICATION	MEANING				
NO MAGZN	The magazine is not installed into the CD Shuttle.				
NODISC	No discs are in the magazine.				

FEATURES

- FULL FRONT DIN™ CHASSIS
- CD SHUTTLE* CONTROL
- DETACHABLE FRONT PANEL
- PROGRAMMABLE CODE-IN ANTI-THEFT

If the 1310R is ever stolen, it will not function until the proper code has been entered after reconnecting power.

BLINKING REMOTE LED OUTPUT-ANTI-THEFT READY

A remote LED may be mounted in the dash (or other conspicuous location) as a further theft deterrent. It will blink continuously once the ignition is turned off.

DYNAS SYSTEM

The DYNAS is an entirely new radio reception system which eliminates radio interference caused by adjacent channels and improves usable sensitivity in FM broadcasting reception. Consequently, with the DYNAS system switch turned ON, some broadcasting stations which are difficult to be received because of adjacent channel interference can be clearly heard with a conventional tuner.

• INTRODUCTION MEMORY

Stores the first 5 seconds of each CD, of the 6 disc magazine, into solid state memory. This makes it easy to find the disc you desire.

- CD TITLE DISPLAY
- M.I.X. (MUSIC IN "X" PLAY)

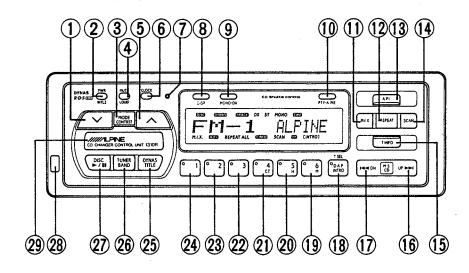
The tracks on disc will be played randomly.

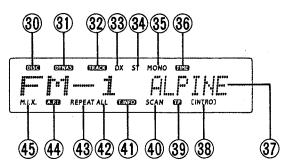
- REPEAT
- SCAN
- WIRELESS REMOTE CONTROL CAPABILITY
- DUAL ILLUMINATION

Backlighting for the front panel can be changed to amber or green.

- S.T.M. (SOURCE TONE MEMORY)
- Automatically memorizes the settings of your Bass/Treble Controls for each source.
- DUAL PRE-AMP OUTPUTS
- Dual pre-amp outputs and a pre-amp fader make system expansion easy and flexible.
- 30-STATION PRESETS
 - FM1: 6, FM2: 6, MW: 6, LW: 6, D.A.P.: 6
- * SHUTTLE is a registered trademark under License from EuroTec International Limited.

CONTROLS AND INDICATORS





CONTROLS AND INDICATORS

Listed below are all the Controls and their Indicators. Please see the Operation Section for explanations.

- ① Level Down Button
- ② PoWeR/INiTiaLiZe Button
- 3 Audio MODE Select/CONTRaST Button
- ④ MUTE/LOUDness Button
- **⑤** Level Up Button
- **© CLOCK Button**
- ⑦ Reset Switch
- ® DISPlay Button9 MONO/DX (Local/Distance) Button
- Program TYpe/Auto MEmory Button
- 1 M.I.X. Button
- REPEAT Button
- Auto Program Identification Button
- SCAN Button
- **(5)** Traffic INFOrmation Button
- ® M.S. CD UP (►) Switch
- M.S. CD DowN (⋈) Switch
- ® Direct Access Preset/INTRO/Time SELect Button
- Preset and Direct Disc Access No. 6/ Minute Button
- Preset and Direct Disc Access No. 5/ Hour Button
- ② Preset and Direct Disc Access No. 4/ Clock Time Button
- ② Preset and Direct Disc Access No. 3 Button
- Preset and Direct Disc Access No. 2
 Button
- Preset and Direct Disc Access No. 1 Button
- **⑤** DYNAS/TITLE Button

- **® TUNER/BAND Button**
- ② DISC (Play ►/Pause II) Button
- Release Button
- Sensor Window for Remote Control
- **30** DISC Indicator
- **③ DYNAS Indicator**
- **②** TRACK Indicator
- ③ DX Indicator
- STereo Indicator
- STereo IndicatorMONO Indicator
- **® TIME Indicator**
- ③ Dot Matrix Display
- 38 INTRO Indicator
- 39 TP Indicator
- **40 SCAN Indicator**
- ① T. INFO Indicator
- ALL Indicator
- REPEAT Indicator
- A.P.I. Indicator
- 45 M.I.X. Indicator

The RDS data used are the PI, PS, AF, TP, TA, EON and PTY data.

- Program Identification code
 - Code identifying programs and consisting of a country code and a program code.
- Program Service name
 - Broadcast station name data expressed in alphanumerical characters of up to 8. Alternative Frequencies
- Frequency list data for broadcasting stations transmitting the same program.
- Traffic Program identification
- Identification data for traffic information broadcasting station.
- Traffic Announcement identification
 - Identification data showing traffic information is being transmitted or not.
- Enhanced Other Networks Information
 - Broadcasting information on PI, AF, TP, TA, etc. relating to networks other than the network used for current reception.
- PTY: Program Type Code
 - Transmitting contents of programs such as a program ID code, news, light music, sports, etc.

RDS Function on the 1310R

- The RDS data is used for the following operations:
- Auto tuning to the station in the network with the best reception is performed using the PI and AF data.
- The station name is displayed using the PS data.
- Traffic information is received automatically using the TP and TA data.

A.P.I. (AUTO PROGRAM IDENTIFICATION) OPERATION

- 1. Press the TUNER/BAND button ® to set the FM mode. (The A.P.I. function does not operate on the MW and LW bands.)
- Press the A.P.I. button ⁽³⁾. The A.P.I. indicator ⁽⁴⁾ appears on the display.
- 3. Press the UP or DN switch (16 or 17) for at least 0.5 seconds to start tuning.
- 4. When the reception of the station last tuned in becomes poor, the set automatically switches to another frequency broadcasting the same program with better reception. (The automatic follow operation does not function in areas where there is no broadcast network.)
- 5. Press the A.P.I. button ³ to cancel the A.P.I. mode. The A.P.I. indicator @ on the display turns off, and the station display switches back to the frequency display.

- 1. With the A.P.I. button 1 in the on position, reception of an RDS station will result in automatic tracing of stations having the same broadcast contents.
- 2. When the A.P.I. button (3) is left on in the seek mode, the radio will also stop at non-RDS stations, but the display will continue to show a frequency.

OPERATION

1310R

A.P.I. 1/A.P.I. 2/PS ONLY MODE

This unit has employed two modes of A.P.I. 1/A.P.I. 2 as automatic tracing systems and PS ONLY mode as non-automatic tracing system, so use one of the modes depending upon status of broadcasting networks, reception status, and other environment.

- 1. Press the DISP button ® for 3 seconds.
- 2. Press the Preset No. 3 button @ to switch among A.P.I. 1, A.P.I. 2 and PS ONLY.

· When the reception status becomes poor, the unit is automatically switched to a station which provides good reception status.

Under certain conditions of broadcasting stations, the unit will be switched to another program station for an instant time of period.

[A.P.I. 2] Mode

If erroneous operation occurs with A.P.I. 1 mode selected, switch the mode to the "A.P.I. 2" mode.

NOTES:

- 1. When switching from a station which provides poor reception condition to the other station which provides good condition, the MUTE function works to check whether the switched station is the same station.
- 2. When moving from the station providing poor reception condition to a good station, the MUTE function successively works for a specified interval if a station providing good reception condition does not exist. In such a case, turn off the A.P.I. or try to tune in another station.
- 3. In the A.P.I. 2 mode, the AF and PI are checked again to search the AF station without fail, so, a longer muting period (about one sec) than that in the A.P.I. 1 mode is necessary.

[PS ONLY] Mode

- The PS ONLY mode executes only the display of broadcasting station name.
- In this mode, automatic tracing operation is not executed. Only the manual tracing operation described below can be executed.

OTHER CONVENIENT FUNCTIONS

Manual Tracing Operation

This operation is used in case of slow tracing in each automatic tracing mode and PS ONLY mode. In the operation, AF will be searched instantly and the station which provides good reception condition will be selected.

- 1. When the A.P.I. button [®] is pressed for two seconds while in the A.P.I. mode (when the A.P.I. indicator @ on the display is on), reception switches to the station included among the AF data which is broadcasting the same program with the best reception.
- 2. "AF SEEK" is displayed during this operation.
- 3. When the operation is completed, "SEEK END" appears on the display.

OPERATION

Setting the PI in the Preset Memory

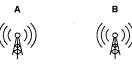
- 1. Tune in an RDS station and set the display to the station name display.
- 2. Press one of Preset buttons 1 to 6 for two seconds.
- 3. The station name flashes for 5 seconds. Press the Preset button at which you want to store the PI while the display is flashing. The PI is now stored in the memory.
- Set other Preset buttons in the same way.
- If a Preset button at which a PI is stored is pressed, the station name will be displayed.
- If the same PI program cannot be received at the first preset recall, "AF SEEK" operation will be executed automatically.
- In case of bad reception condition at the first preset recall, press the preset button again and "PI SEEK" operation will be executed automatically. During this operation, "PI SEEK" will be displayed and the broadcasting station of the same PI and another frequency will be searched.
- If a station broadcasting the same program cannot be tuned in, reception returns to the original frequency and the preset indicator turns off.

REGIONAL PROGRAM OPERATION

Some broadcast stations will change from normal broadcasting to regional broadcasting for a certain time period.

[Example]

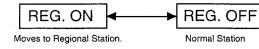
A station A broadcasts the regional program "WDRG" from 9:00 to 10:00 and the station broadcasts the normal program "WDR2" for the time period except for 9:00 to 10:00.



Program	Station A	Station B	Time Period	
Regional Program	WDRG	WDRE	9:00 to 10:00	
Normal Program	WDR2	WDR2	Time period except for above.	

Pl area code will change when the normal broadcasting is switched to the regional broadcasting. This operation allows selection of the function which moves to the regional station or remains in the normal broadcasting.

- 1. Press the DISP button ® for 3 seconds.
- 2. Press the Preset No. 4 button @ and the dot matrix display shows REG. ON or REG.
- 3. To switch the REGIONAL ON/OFF, press the Preset No. 4 button (1)



RDS auto memory function

Six RDS stations can be stored in the preset memory in order according to the best reception conditions. Set to the RDS station reception mode. Press the A. MEMO button ® for more than 2 seconds to start the auto memory operation.

CAUTION

The PI and PS data stored in the memory are cleared when the auto memory function is used, so set them in the memory once again.

TRAFFIC INFORMATION FUNCTION

With this function, traffic information can be received automatically from any mode. This function operates using the RDS TP and TA signals.

Traffic information being broadcasted through other network can be received by using EON signal.

To receive traffic information:

- Press the TUNER/BAND button [®] to set the FM mode. (The traffic information function does not operate on the MW and LW bands.)
- 2. Press the T. INFO button ⁽¹⁾. The T. INFO indicator ⁽¹⁾ appears on the display. The TP indicator ⁽²⁾ lights when a traffic information station is received regardless of the traffic information mode.
- Press the UP or DN switch ([®] or [®]) to start searching.
 The set automatically searches for a traffic information station.
 Once the station is tuned in, the TP indicator [®] appears on the display.
- 4. The following appears on the display when traffic information is received:

TRF . INFO

NOTE:

When a reception signal strength is poor during the traffic information reception, the function which holds the traffic information reception mode works for 1 minute.

If no information is received for 1 minute, the traffic information reception mode is automatically cancelled and the unit returns to the original mode. If a traffic information termination signal is received during the hold period, the unit also returns to the original mode.

- If traffic information is received while a CD is playing, the CD is automatically paused and the traffic information can be heard. Once the traffic information is over, the set returns to the previous mode.
- If traffic information is received when the volume control is set at the minimum, the volume is automatically set to the preset level while the traffic information is being received.

OPERATION

Four preset volume levels can be set for traffic information reception

- (1) Press the DISP button ® for 3 seconds.
- (2) Press the Preset No. 2 button 3 to switch between TA-LV 4 to TA-LV 1. Select the desired level.

TA - LV 1

- 7. When the reception of the broadcast station currently tuned in becomes poor, the TP indicator [®] turns off and the set is set to the following state:
 - (1) An alarm is sounded after traffic information stations can no longer be received (the TP indicator [®] turns off).
 - If a CD is playing, it is paused automatically and the alarm is sounded.
 - (2) Use the manual tuning, seek, or auto memory functions to tune in another station.
 - (3) When the set is in the seek mode, if the UP or DN switch ([®] or [®]) is pressed for at least 0.5 seconds, the set only searches for traffic information stations. It either finds a traffic information station or continues searching until the seek mode is canceled.
- 8. The set operates as follows if both the traffic information and A.P.I. modes are set: The automatic follow operation is performed for stations broadcasting the same program which are also traffic information broadcast stations.

When traffic information stations cannot be received:

In the tuner mode:

When the TP signal can no longer be received, an alarm will be sounded after 1 minute.

In the CD or EXT mode:

When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically.

PTY (PROGRAM TYPE) FUNCTION

With PTY function, the program type currently received will be displayed and the station which broadcasts the desired program type can be searched automatically.

PTY Display Operation

- 1. Press the TUNER/BAND button ²⁸ to set the FM mode.
- 2. Press the PTY button 10 to access the PTY mode.
- The program type currently received will be displayed on the dot matrix display ®.
 NOTE:

"NONE" will be displayed when the receiving condition is bad or when the station provides no PTY data broadcasting. And after 5 seconds the PTY mode will be released automatically.

4. To release the PTY mode, press the PTY button ⁽¹⁾.

PTY Seek Operation

- 1. Press the PTY button ¹⁰ to access the PTY mode.
- 2. Select the desired program type with the UP or DN switch (16 or 17).

[Example]

Туре	Classics	Other Music	Music	Speech	News
Display	CLASSICS	OTHER M	MUSIC	SPEECH	NEWS

- The dot matrix display ® will be blinking and the station which broadcasts the desired program type will be searched.
- 4. When the desired station is received, blinking will be stopped automatically.
 - "NO PTY" will be displayed when the desired station fails to be searched, and after 5 seconds the PTY mode will be released automatically.
- Normally, the PTY mode will be released automatically unless any button is pressed within 5 seconds.

OPERATION

RADIO OPERATION

Tuning Band Selection

Press the BAND button ® to select the desired tuning band. The Band indicator shows your selection.

DYNAS System Mode

The DYNAS system has two modes; DYNAS 1 and DYNAS 2. Set either one of the mode which provides good reception according to procedures shown below. Then, the DYNAS system allows you to receive clearer reception of FM broadcasting. In a noisy and sound distorted area, set to DYNAS 2.

- 1. Press the DYNAS button ®.
 - "DYNAS 1" will appear on the display.
- 2. Press the DYNAS button ⁽²⁾ for more than 2 sec., and "DYNAS 2" will appear on the display (and DYNAS 1 mode is switched to DYNAS 2 mode).
- 3. To release the DYNAS system mode, press the DYNAS button 3.

NOTE:

If distortion and noises higher than those obtained in normal reception are heard, set the DYNAS mode to OFF. The increased distortion and noises will be caused in many cases by reasons shown below.

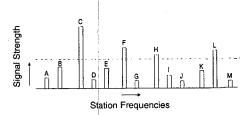
- When reception frequency is deviated
 In the 1310R, a reception frequency is received in the step of 0.05 MHz, so ±0.025 MHz deviation may be caused depending upon broadcasting stations.
- When transmission signals are overmodulated in broadcasting stations
 Some broadcasting stations may be transmitting signals with increased modulation depth to increase sound level.

Local/Distance (DX) Seek Sensitivity for FM, MW and LW

You can select the radio seek sensitivity (local or distance (DX)), by pressing the DX (distance) button (9) for more than 2 seconds.

In the local mode, with no DX indicator ③, the radio tunes in only strong stations (stations C, F, H and L in the illustration below).

In the distance mode, with DX indicator (3), the radio tunes in both strong and weak stations (all stations from A to M in the illustration).



FM Stereo/Monaural Switching

You can select between the auto switching or monaural only modes for FM reception by pressing the MONO button ③. In the auto switching mode, you can receive stereo broadcasts in stereo and monaural broadcasts in MONO. In the monaural mode, you will receive the broadcast in monaural only, even if the broadcast is in stereo. The monaural only mode quiets the noisy stereo signal of weaker broadcasts. The ST indicator ③ will not appear while the monaural mode is selected.

Manual and Auto Seek Tuning

Stations can be tuned in using the procedures described below.

1. Select the tuning band (FM1, FM2, MW or LW) with the BAND button [®]. The Band indicator shows your selection.

$$\rightarrow$$
FM-1 \rightarrow FM-2 \rightarrow MW \rightarrow LW $-$

2. Decreasing the frequency:

The frequency is decreased by one step each time the DN switch 1 is pressed. By pressing and holding the switch for at least 0.5 seconds, the unit will automatically tune the first station it finds in the direction of decreasing frequency.

3. Increasing the frequency:

The frequency is increased by one step each time the UP switch (b) is pressed. By pressing and holding the switch for at least 0.5 seconds, the unit will automatically tune to the first station it finds in the direction of increasing frequency.

Preset Memory Programming

Follow the instructions below to program stations into preset memory:

- 1. Select the tuning band (FM1, FM2, MW or LW) with the BAND button ®.
- 2. Tune in your desired station using manual or auto seek tuning.
- 3. Press the Preset button number 1 @ for more than 2 seconds.
- 4. The preset indicator and the dot matrix display ③ will begin to blink. Press that Preset button again while the display is blinking (within 5 seconds).
- The frequency you selected will be placed into preset memory number 1 and will appear in the display.

NOTE:

If a preset memory has already been set in the same address, it will be cleared and the new station will be memorized.

 Follow steps 2 – 4 for the remaining presets (2 – 6). Use this procedure for FM1, FM2, MW and I W

Auto Memory Preset

 Select the desired tuning band (FM1, FM2, MW or LW) with the BAND button [®]. The Band indicator shows your selection.

The auto memory preset procedure is allowed in the D.A.P. mode.

2. Press the A. MEMO button @ for over 2 seconds.

OPERATION

1310R

- 3. The tuner will automatically seek the 6 strongest stations in the selected band and memorize them in order of their signal strength. These stations are automatically placed in the preset memory with the strongest station in preset No. 1 and the 6th strongest station in preset No. 6. When seeking stations, the tuner first seeks in the local tuning mode. If less than 6 stations are memorized, the tuner seeks again in the distance (DX) mode.
- 4. After finishing the auto memory preset, the tuner goes to the station placed in preset memory No. 1. If no stations are memorized, it returns to the original station you were listening to before the auto memory preset procedure began.

Preset Tuning

After the preset stations have been memorized, you can tune in your desired station (within the band displayed) with one touch of a button.

- 1. Select the tuning band (FM1, FM2, MW or LW) with the BAND button ®.
- Press any one of the Preset buttons ([®] − [®]) and the number of that preset will appear in the preset display [®].
- The frequency of the station placed in the selected preset location will appear in the display.

D.A.P. (Direct Access Preset)

This feature allows the storage of FM MW and LW presets on the same band.

- 1. Press the D.A.P. button ®. The D.A.P. indicator will appear in the display.
- To program stations into the D.A.P. band, follow steps 1 4 as described in the Preset Memory Programming section on page 20.

Accessing the D.A.P. Presets

- 1. Press the D.A.P. button ®. The D.A.P. indicator will appear in the display.
- 2. Press one of the Preset buttons (⁽¹⁾ ⁽²⁾).
- 3. The frequency of the station placed in the selected D.A.P. location will appear in the display.

Switching the FM Volume

Use this function if the difference in volume is great when switching between a CD and the FM radio.

- 1. Press the DISP button ® for 3 seconds.
- 2. Press the Preset No. 1 button 4 to switch the display between "FM-LV Hi" and "FM-LV Lo"

The FM volume can be set to one of two positions, high or low. Set the position according to the broadcast station.



OPERATION

CD OPERATION

The following instructions apply only to systems that incorporate the Alpine CD Shuttle with 1310R.

Turn the unit On and access the CD mode by pressing the DISC (►/■) button ②.

Normal Play

- Press the DISC (►/II) button ②.
- 2. The first disc will begin playback.
- After the last track on the last disc is played back, the pickup will return to the beginning of the first track of the first disc and begin playback from that point.

On the DISPLAY

Pushing the DISP button ® in the DISC mode will change the display from Elapsed Time to Title display. See below.

Disc No., Track No., Elapsed Time → Disc No., Track No., Title display →

NOTES:

- 1. The title display will work only with discs for which the titles have already been registered. (Refer to page 25.)
- 2. In the A.P.I. or T. INFO mode, even if the DISP button ® is pushed, the display can not be switched. The mode will be set to the tuner mode and the tuning is possible.

Pause

While the disc is playing, press the DISC (►/II) button ② to temporarily stop playback. The dot matrix display ③ will show "PAU". To resume playback, press the DISC button (►/II) ② again.

Music Sensor (Skip)

This feature allows you to access the beginning of your musical track selection simply and quickly. It is functional in the play or pause mode. The dot matrix display \mathfrak{D} shows the track number you have selected.

- To advance to the next track on the disc, press the UP switch .
- 1. Playback stops, and the pickup moves up to the beginning of the next track. That track number appears in the dot matrix display ③.
- 2. Playback begins immediately.
- 3. If you wish to access a track further ahead on the disc, continue pressing and releasing the UP switch [®] until you reach the track of your choice.
- To replay the track that is currently playing, press and release the DN switch ①.
- 1. Playback stops, and the pickup moves back to the beginning of the current track. The track number in the dot matrix display [®] remains the same.
- 2. Playback begins immediately from the beginning of the track.
- 3. If you access a track further towards the beginning of the disc, continue pressing and releasing the DN switch ① until you reach the track of your choice.

Direct Disc Access

- 1. Press one of the Direct Disc Access buttons (9 9) to select from discs 1 6. The disc and track numbers will appear in the display.
- 2. Press the UP ® or DN ® switch for musical track selection.

Fast Forward/Fast Backward

The fast forward/fast backward feature works in the play mode only.

- 1. Press either the UP 6 or the DN 1 switch and hold it down for more than 1 second.
- 2. To move the pickup forward rapidly, hold down the UP switch .
- 3. To move the pickup backward rapidly, hold down the DN switch ①.
- 4. Release the button when you get to the desired position on the disc.
- 5. When the pickup reaches the end of the disc, it will begin playback from the beginning of the first track on the next disc.

Repeat (One/All)

This feature allows you to continuously repeat a single track or one entire disc.

To Repeat a Single Track

- 1. Locate the music track of your choice using the UP ® or DN ® switch.
- 2. Press the REPEAT button 1.

The REPEAT indicator @ will illuminate.

The music track will be played back repeatedly.

3. To stop repeat play, press the REPEAT button @ twice.

To Repeat an Entire Disc

- 1. While playing a disc, press the REPEAT button @ until the ALL indicator @ will illuminate
- 2. The disc will be played back repeatedly.
- 3. To stop repeat play, press the REPEAT button @ once. The indicator illumination will be off.

Disc Scan

Press the SCAN button ⁽¹⁾ and the unit will playback the first 10 seconds of each track in succession. This function is useful in searching ahead on a disc for a specific selection. Pressing the SCAN button ⁽¹⁾ a second time deactivates the function.

M.I.X. (Random Play)

Press the M.I.X. button ① while the unit is in the play or pause mode. Musical tracks on the selected disc will be played back in a random sequence generated by the microprocessor. After all the tracks on the disc have been played back once, the player will begin a new random sequence.

Programming CD INTRO Memory

The first 5 seconds of each disc in a magazine can be memorized in IC memory. This allows you to listen to the beginning of each disc without actually changing it. Thus, you can identify a disc quickly and easily.

A short delay of the recording start time can be selected. This works well with discs which do not have music, for short periods, at the very beginning.

- 1) Press and hold the PWR button @ for more than 2 seconds.
- 2) Push T. SEL button [®]. Each time you push the button, the display will change from "0" to "10" seconds in the order shown below:
 "0" → "5" → "10" → "0" → "...
- 3) Once the desired delay is shown in the display, push the PWR button ② again to make the selection and return to the normal mode.

Indication 0:

Mute length of 0 to 5 sec.

Indication 5: Indication 10:

Mute length of 5 to 10 sec.

Mute length of 10 to 15 sec.

OPERATION

INTRO memory

- 1. Push the INTRO button [®]. Recording for each disc will start.
- 2. When the recording completes, "[INTRO]" is displayed, telling you the INTRO mode is being actuated. In the "INTRO" mode, the introduction section will be played back each time you select a disc.
- 3. To cancel the "INTRO" mode, push the INTRO button ® to turn the display to "INTRO".

NOTES:

- Quality of the sound obtained from the introduction memory is lower than the normal sound quality because of the small amount of IC memory available.
- 2. Contents of the memory will be erased if the battery lead is removed, reset operation is conducted, or the current magazine is replaced.
- When using the Digital Audio Output of the 5959S to the Digital Input of any of Alpine's Digital Processors, follow the steps below to ensure proper operation of the INTRO Memory feature:
 - a) Attach a model 4913 to the Changer Input of the Digital Processor
 - b) Connect the DIN and Analog Audio Outputs of the 5959S to the 4913
 - All other connections are per instructions in Owner's Manual for each Digital Processor.

CD Title Display

A title (up to 8 characters) can be given to each disc, to be displayed whenever that disc is selected.

Inputting the Title

- 1. Press and hold the TITLE button ® for more than 2 seconds to set the CD title mode.
- 2. Select a disc with the DIRECT DISC SELECT buttons (9 29).
- 3. Enter characters with buttons (1, 3 5).

How to use the buttons (11), 13 - 15)

- 1) Use the M.I.X. ① or SCAN ④ buttons to select the character position.
- 2) Push the A.P.I. ③ and T. INFO ⑤ buttons to select characters and numerals.

NOTE

Data for up to 42 discs can be written. If the number of discs exceed 42, "FULL TITLE" will be displayed. In such a case, erase the titles for less used discs to free required space. You can now perform the operations listed above.

Recalling a Registered CD Title

While a CD is playing, pressing the TITLE button @ will display its title for 5 seconds.

Deletion of Registered CD Title

- Press and hold the TITLE button

 for more than 2 seconds to enter the CD title mode.
- 2. Push the DISP button ® to show the titles in the display.
- 3. Push the UP/DowN button ® or ® to call out the title to be deleted.
- 4. Press and hold the DISP button ® for more than 2 seconds to delete the title.
- 5. Push the TITLE button @ for more than 2 seconds to return to the normal mode.

NOT

For deleting the CD title other than procedures above (1 – 5), enter " (8 spaces)

OPERATION

CLOCK OPERATION

RDS Clock

- 1. Press the CLOCK button ®. The clock time will appear on the display.
- 2. The clock is automatically corrected, the dot matrix display ③ showing "RDS", when RDS CT data is received.

RDS 12:00

NOTE

If the RDS signal in reception is weak, the time adjustment by RDS function may require a little longer time.

3. If the unit shows incorrect time caused by a wrong signal, adjust the time manually by referring to "Setting the Time" below.

Normal Clock

- 1. Press and hold the CLOCK button 6 for more than 3 seconds.
- 2. Press the CT button 1 to deactivate the RDS function.
- 3. Adjust the time by referring to the "Setting the Time" below.

12:00

Setting the Time

1. Press and hold the CLOCK button © for more than 3 seconds to enable the time adjust mode. The time display will blink when ready for setting.

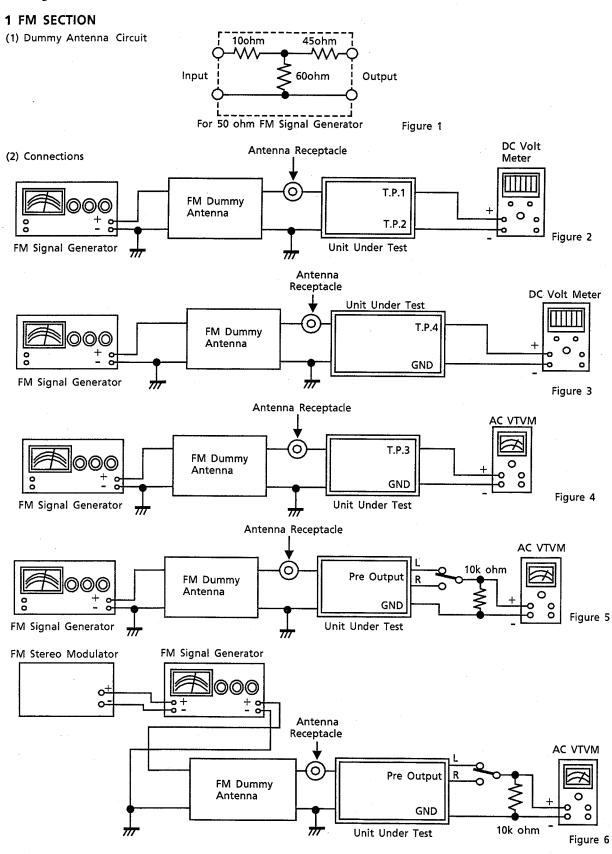
NOTE:

Make adjustments for 5 seconds blinking.

- 2. Adjusting the hours:
- Use H button @ to adjust the hours.
- 3. Adjusting the minutes:

Use M button ¹⁹ to adjust the minutes.

Adjustment Procedures



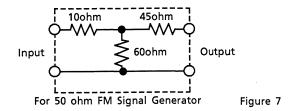
(3)	Control Settings
	Power Switch ON
	Fader Control Center Position
	Balance Control Center Position
	Treble / Bass Control Center Position
	Band Switch FM
	Others OFF

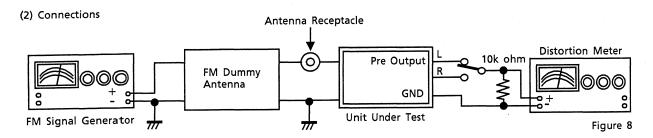
(4) Adjustment Procedures

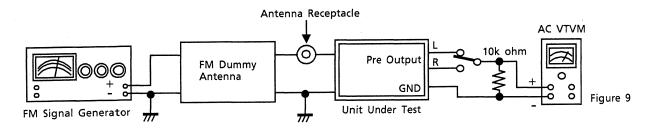
Step	Descriptio	n	Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 2	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	Adjust L2101 to 0±5mV.
2	Signal Mete Adjustment		Figure 3	98.1MHz, 46dB (Mod. 400Hz)	98.1MHz	T.P.4	Adjust VR2101 to 3 ± 0.3 V.
3	Noise Level		Figure 5	98.1MHz, 72dB (Mod. 400Hz)	98.1MHz	Pre Output	Adjust S401, 402 (LEVEL DOWN / UP SWITCH) to obtain 500mV output. This value is 0dB.
3	Adjustment	(2)	Figure 5	98.1MHz, - 19dB (Mod. 400Hz)	98.1MHz	Pre Output	Adjust VR2106 to 30 ± 5 dB output at SG level minimum.
4	Seek Stop Adjustment		Figure 4	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.3	Adjust VR2105 to obtain 27±5dB.
5	Stereo Separation Adjustment (Lch)		Figure 6	98.1MHz, 72dB (Stereo 1kHz, Lch only)	98.1MHz	Pre Output	Adjust VR2104 for Rch output to be minimum and confirm Lch and Rch output level difference is more than 20dB.
6	Stereo Blend Adjustment (Lch)		Figure 6	98.1MHz, 46dB (Stereo 1kHz, Lch only)	98.1MHz	Pre Output	Adjust VR2102 for Lch and Rch output level difference to be 8 ± 2 dB.
7	Stereo Separation Adjustment (Rch)	-	Figure 6	98.1MHz, 72dB (Stereo 1kHz, Rch only)	98.1MHz	Pre Output	Proceed same adjustment under step 5 by alternating Lch and R⊂h.
8	Stereo Blend Adjustment (Rch)		Figure 6	98.1MHz, 46dB (Stereo 1kHz, Rch only)	98.1MHz	Pre Output	Proceed same adjustment under step 6.

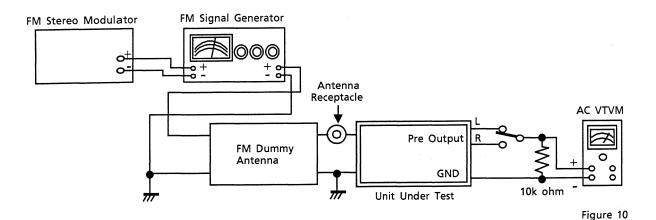
2 DYNAS SECTION

(1) Dummy Antenna Circuit









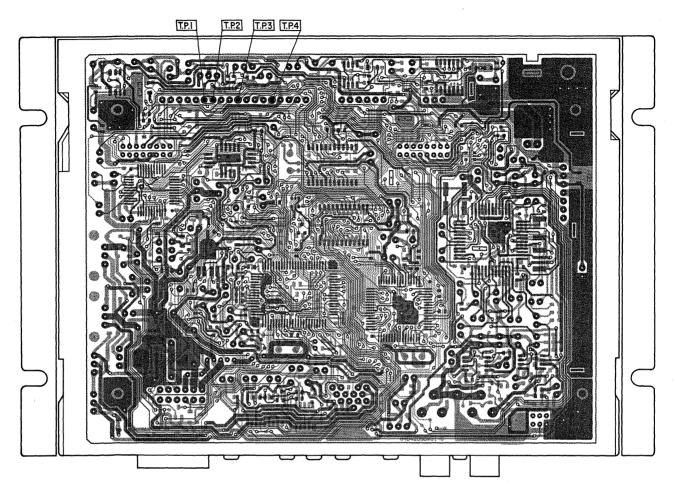
(3) Control Settings
Power Switch ... ON
Fader Control ... Center Position
Balance Control ... Center Position
Treble / Bass Control ... Center Position
DYNAS TITLE Switch ... ON

Others

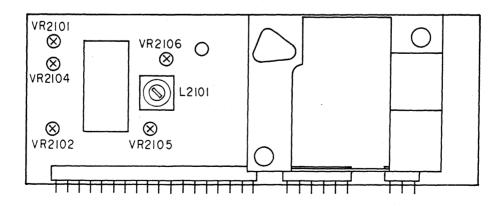
(4) Adjustment Procedures

Step	Description		Connection	Signal Generator	Dial Control	Test Point	Adjustment		
1	Distortion Adjustment				Figure 8	98.1MHz, 72dB (Mod. OFF)	98.1MHz	Pre Output	Adjust L3005, as the distortion rate becomes minimum.
2	2 Output Level Adjustment		Figure 9	98.1MHz, 72dB (Mod. OFF)	98.1MHz	Pre Output	Adjust VR201 to 500mV \pm 1dB.		
3	Separation 3 Adjustment (Lch)		ot Figure 9 (5) and Alley Late 98.1MHz		Pre Output	Adjust VR3010 for Lch and Rch output level difference to be 0±5dB.			
4	Separation 4 Adjustment (Rch)		Figure 9	98.1MHz, 72dB (Stereo 1kHz, Rch Only)	98.1MHz	Pre Output	Proceed same adjustment under step 3.		
	Mute	(1)	Figure 10	98.1MHz, 72dB (Mod. OFF)	98.1MHz	Pre Output	Adjust S401, 402 (LEVEL DOWN / UP SWITCH) to obtain 500mV output. This value is 0dB.		
5	Adjustment	(2)	Figure 10	98.1MHz, - 19dB (Mod. OFF)	98.1MHz	Pre Output	Adjust VR3001 to -25±2dB output at SG level minimum.		

Adjustment Locations

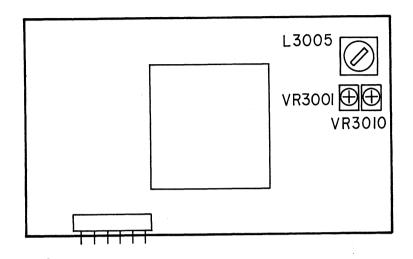


Main P.C. Board (Foil Side)



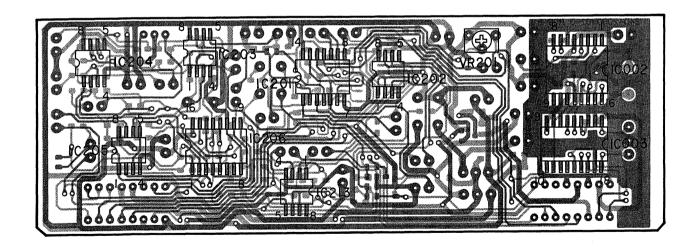
FM/MW/LW Tuner Unit (FE001)

Figure 11



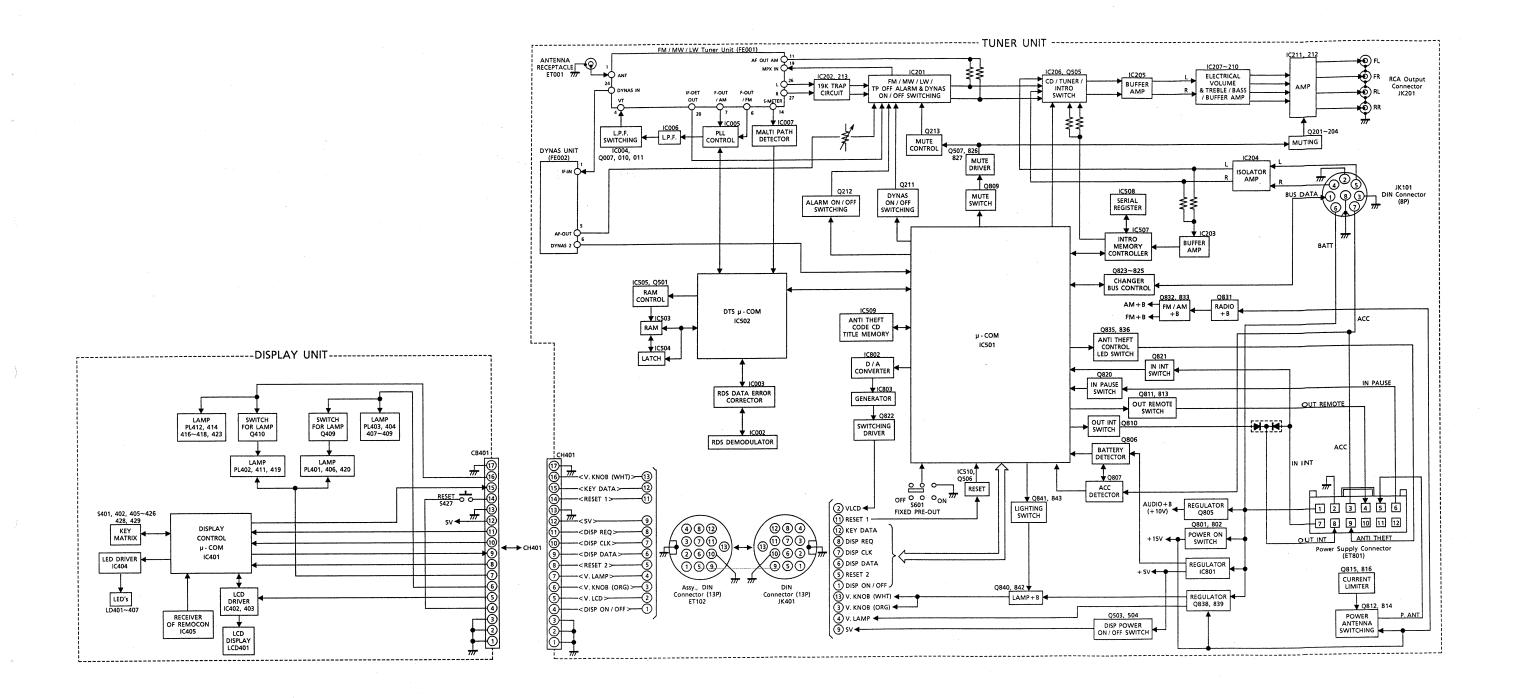
DYNAS Unit (FE002)

Figure 12

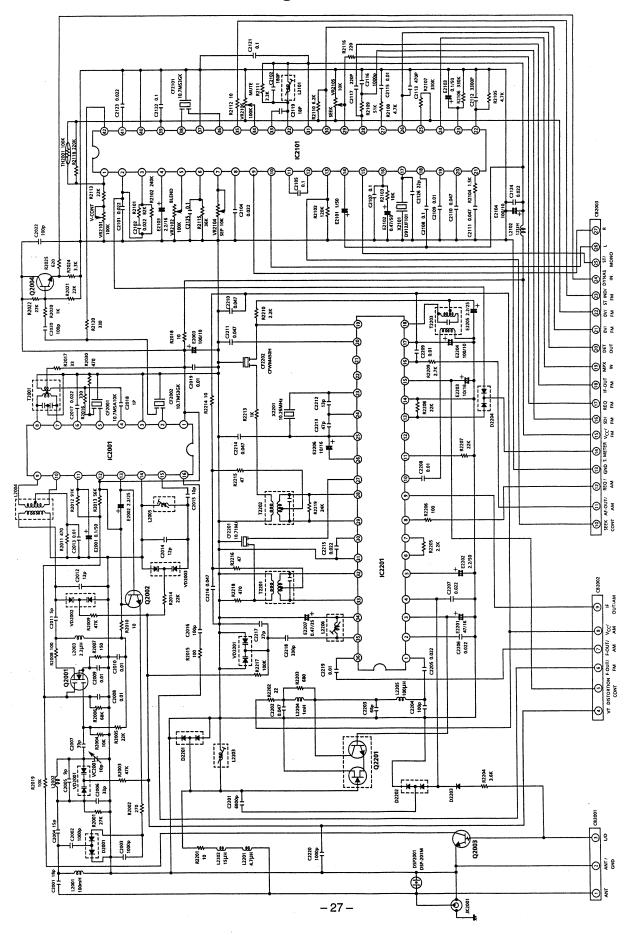


RDS P.C. Board (Component Side)

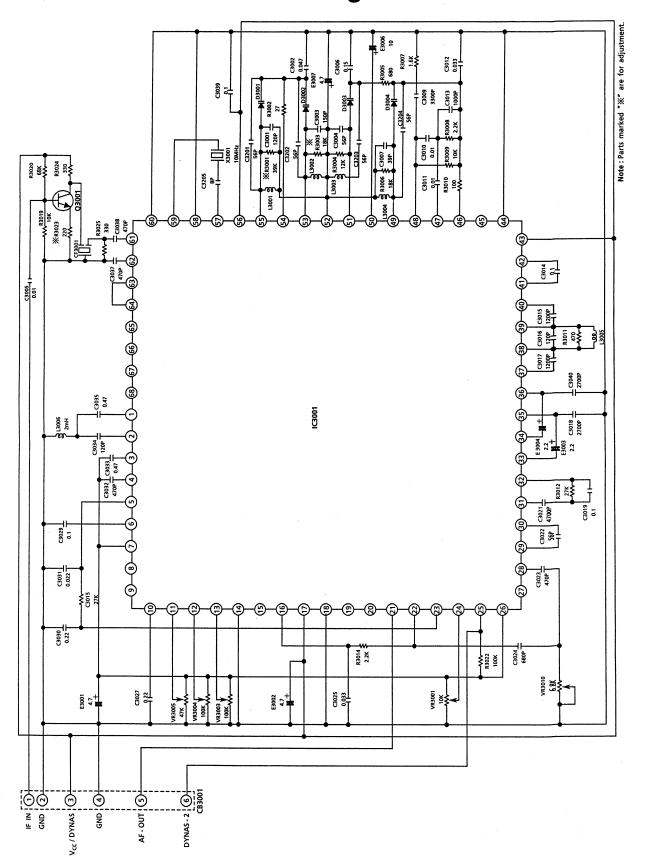
Block Diagram



Tuner Schematic Diagram

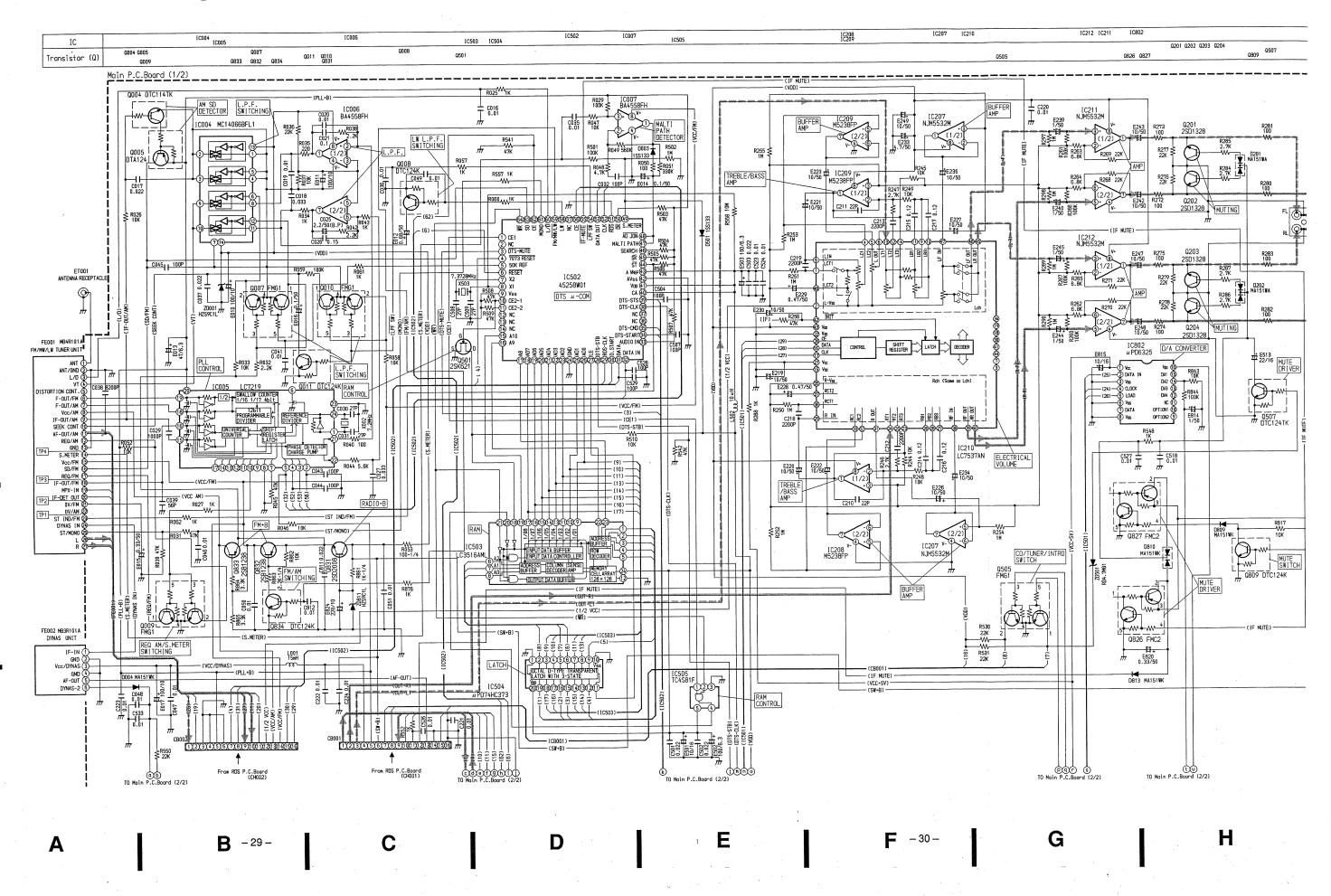


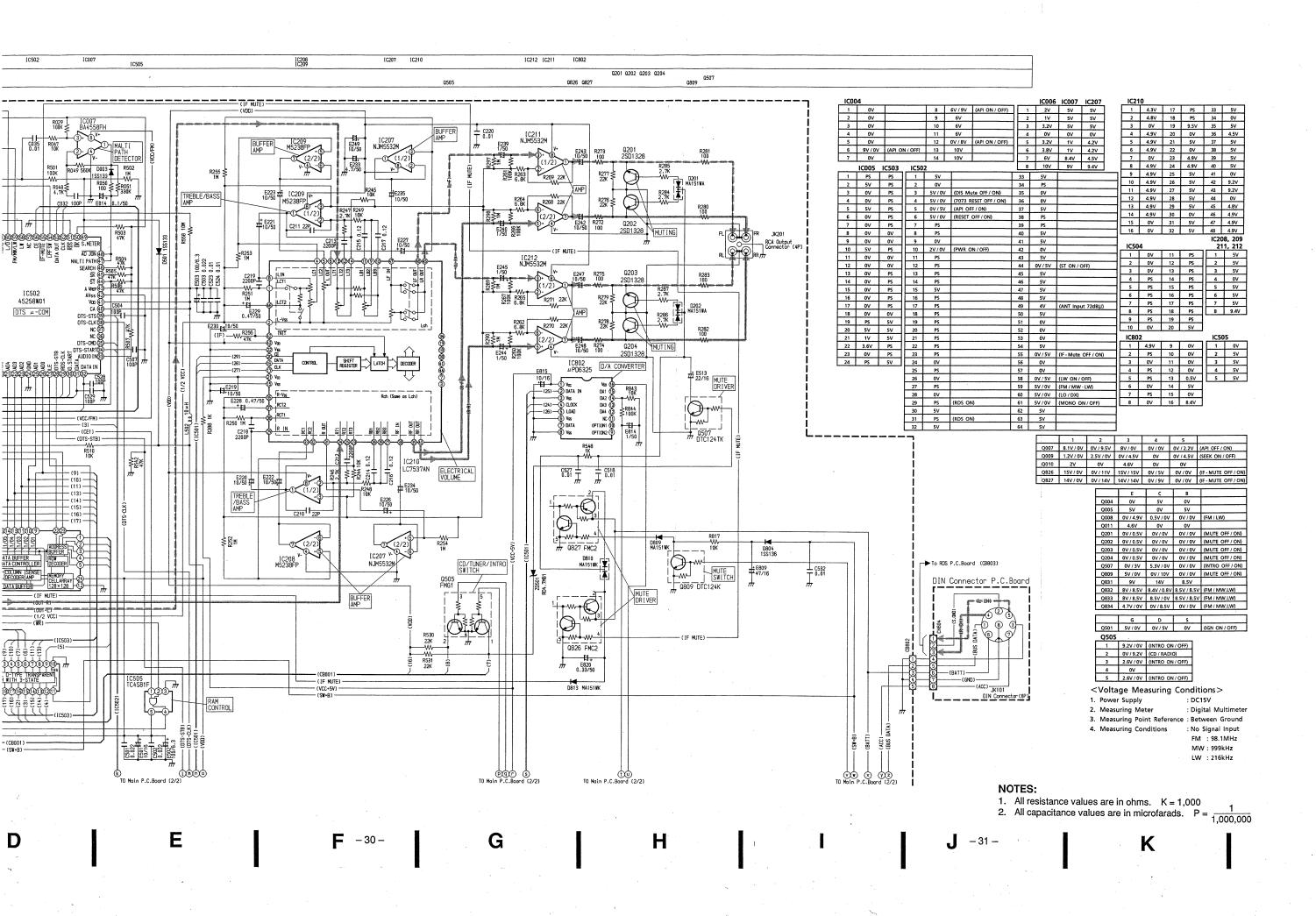
DYNAS Unit Schematic Diagram

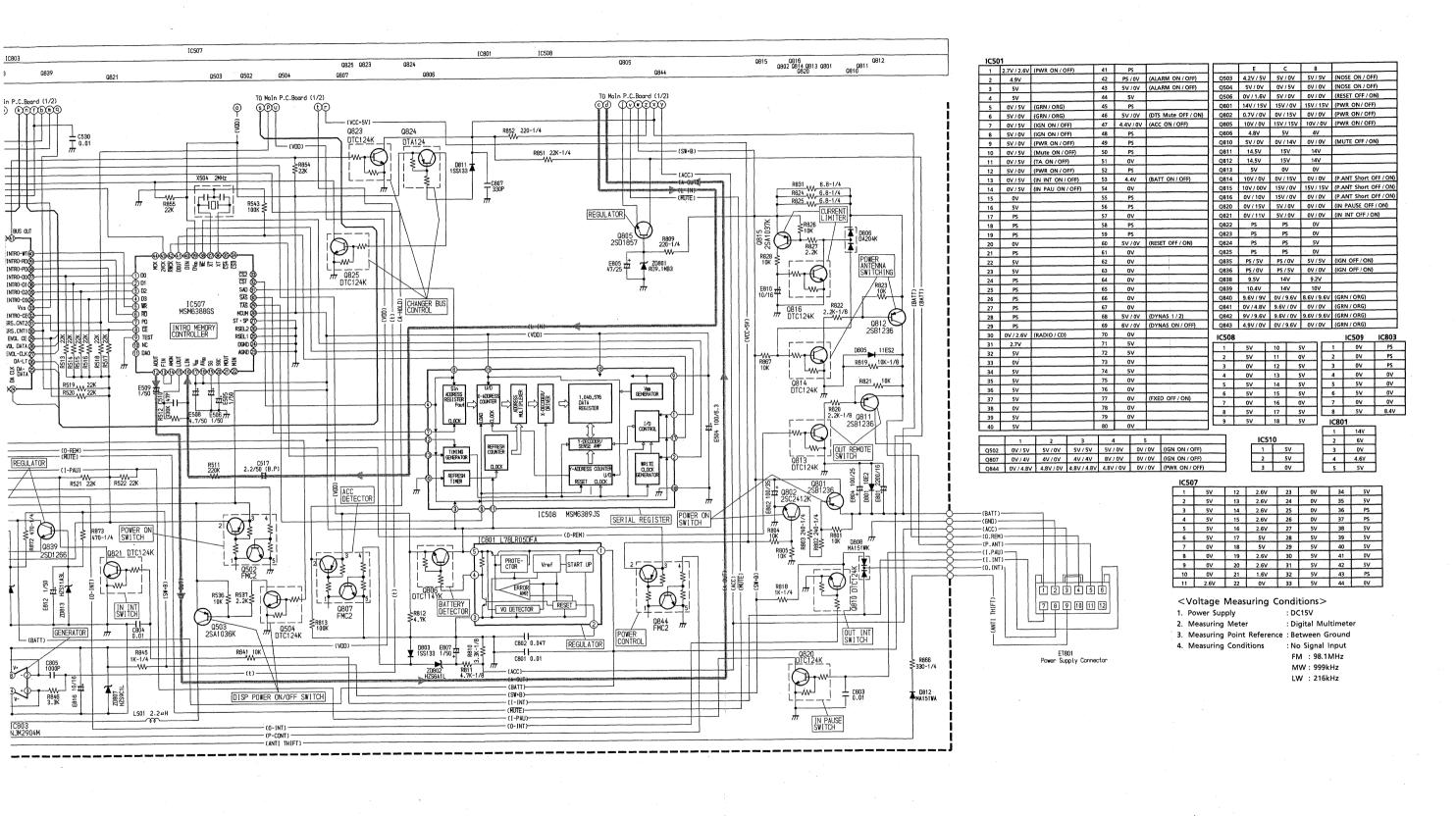


Schematic Diagram (1/3) (Tuner Unit)

3







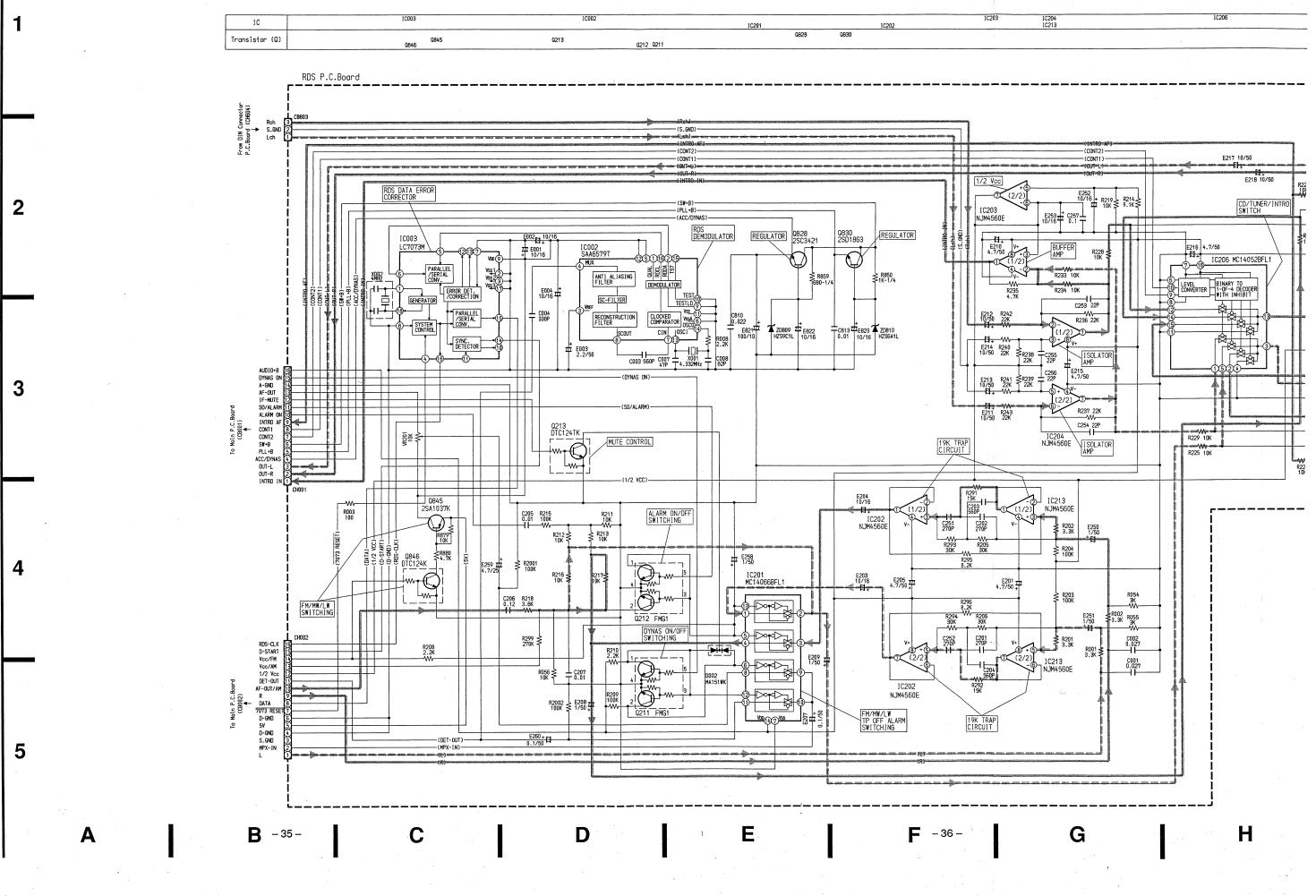
NOTES:

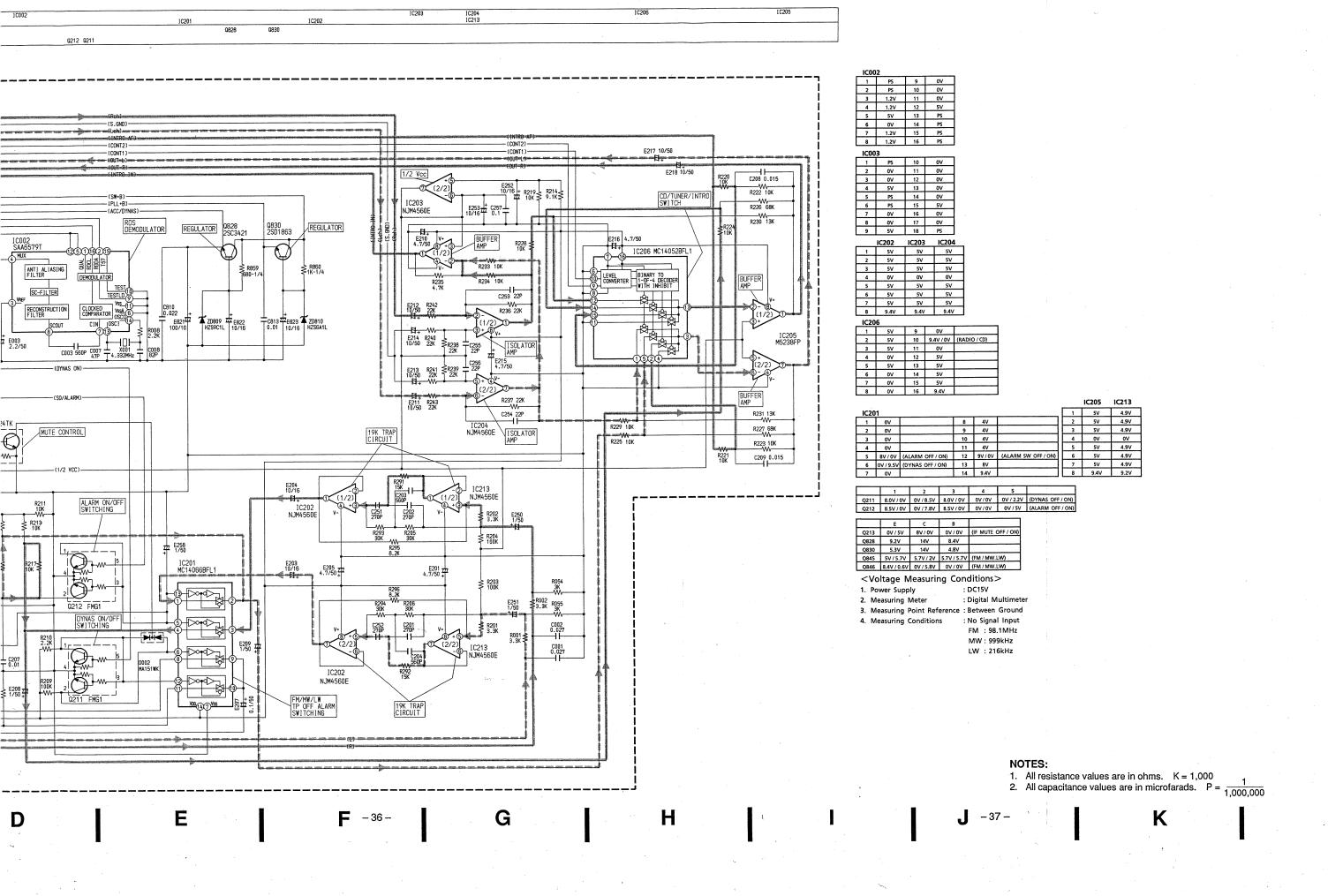
1. All resistance values are in ohms. K = 1,000

1. All resistance values are in microfarads. $P = \frac{1}{1,000,000}$

G

Schematic Diagram (3/3) (Tuner Unit)



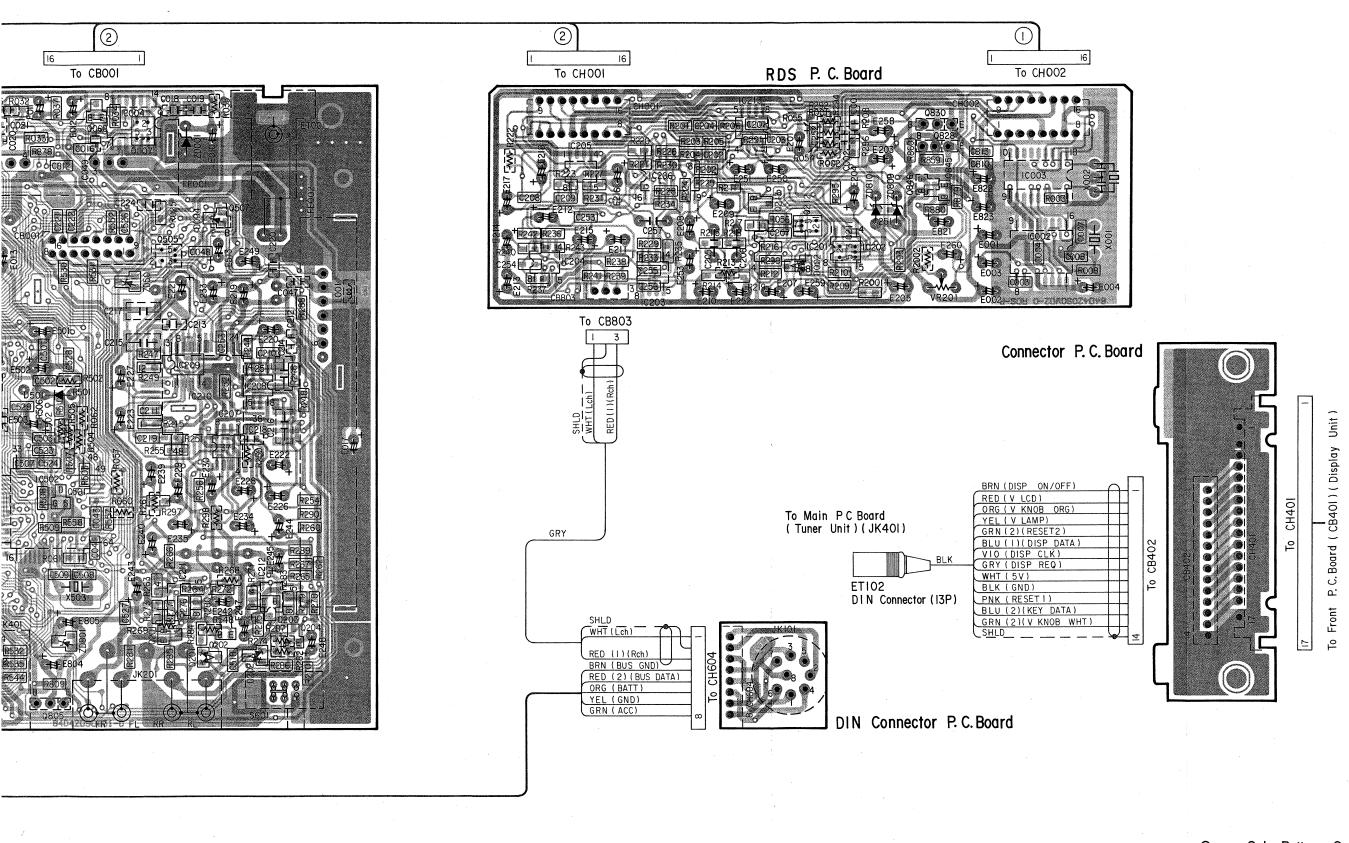


1310R

Parts Layout on P.C. Boards and Wiring Diagram (Tuner Unit)

Main P. C. Board RDS P. C. Bo 2 To Main PC (Tuner Unit) RED (I)(Rch)
BRN (BUS GND)
RED (2)(BUS DATA)
ORG (BATT)
YEL (GND)
GRN (ACC)

agram (Tuner Unit)



Orange Color Pattern : Component Side Pattern Blue Color Pattern : Foil Side Pattern

Electrical Parts List (Tuner Unit)

Resistor : Carbon resistors under 1 / 4 watts are not mentioned in the

parts list, please confirm them by schematic diagram.

Capacitor: $\mu F = microfarads$, pF = picofarads

RES.=	Resistor	reviations CAP.= Capacitor	Symbol No.	Part No.	Description
C.F.=	Carbon Film	ELY.= Electrolytic	Q011	48T62967F03	CP., DTC124K
M.F.=	Metal Film	CER.= Ceramic m MYL.= Mylar	Q201	48T63788F01	CP., 2SD1328
M.O.=	Metal Oxide Fil	m MYL.= Mylar TAN.= Tantalum	Q202	48T63788F01	CP., 2SD1328
M.P.=	Metal Plate Transistor	POLY = Polystyrol	Q203	48T63788F01	CP., 2SD1328
TRANS -	Transformer	PP.= Polypropylene	Q204	48T63788F01	CP., 2SD1328
CP.=	Chip	PLT.= Polyethylene	1		,
1	-···F	PF.= Polyester Film	Q501	48T80674F01	FET, CP. 2SK621
			Q502	48T73888F12	CP., FMC2
Symbol	Part No.	Description	Q503	48T63419F01	CP., 2SA1036K
No.	Fait No.	Descripcion	Q504	48T62967F03	CP., DTC124K
	N / - !	D. C. Board	Q505	48T73888F08	CP., FMG1
1	iviain	P. C. Board	0506	40763067504	CP., DTC144K
IC's			Q506	48T62967F04	
			Q507	48T62967F21	CP., DTC124TK 2SB1236
IC004	51T40941U03	MC14066BFL1	Q801	48T55058W01	CP., 2SC2412K
IC005	51T35504W02	LC7219	Q802	48T63417F01 48T55057W01	2SD1857
IC006	51T94121F11	BA4558FH	.Q805	4612202/7001	230 1037
or	51T94121F21	XRA4558FH	0006	48T62967F06	CP., DTC114YK
IC007	51T94121F11	BA4558FH	Q806	48T73888F12	CP., FMC2
or	51T94121F21	XRA4558FH	Q807	48T62967F03	CP., DTC124K
1		1,,,,,,,,,,,,	Q809 Q810	48T62967F03	CP., DTC124K
IC207	51T93335F01	NJM5532M	Q810 Q811	48T55058W01	25B1236
IC208	51T80136F04	M5238FP	ا ۱۹۰	104000001	255.250
IC209	51T80136F04	M5238FP	Q812	48T55058W01	2SB1236
IC210	51T72016F02	LC7537AN	Q812 Q813	48T62967F03	CP., DTC124K
IC211	51T93335F01	NJM5532M	Q813 Q814	48T62967F03	CP., DTC124K
1		NUMBERSONA	Q814 Q815	48T63420F01	CP., 2SA1037K
IC212	51T93335F01	NJM5532M	Q815 Q816	48T62967F03	CP., DTC124K
iC501	51T45609W05	45609W05 45258W01	~~~	,5152507105	
IC502	51T45258W01	•	Q820	48T62967F03	CP., DTC124K
IC503	51T84723F02	LC3516AML µPD74HC373	Q820 Q821	48T62967F03	CP., DTC124K
IC504	51T35086W02	μευ/46C3/3	0822	48T62967F03	CP., DTC124K
15505	E1T02522504	TC4S81F	Q823	48T62967F03	CP., DTC124K
IC505	51T93532F04 51T45634W02	MSM6388GS	Q824	48T62966F03	CP., DTA124
IC507 IC508	51T45635W03	MSM63891S	` `		
IC508	51145633W03	X24LC04SI	Q825	48T62967F03	CP., DTC124K
IC509	51T95014F13	S-8052HNM-CR	Q826	48T73888F12	CP., FMC2
ICSTU	31133014113	3 332,	Q827	48T73888F12	CP., FMC2
IC801	51T15268W03	L78LR05DFA	Q831	48T15289W03	
IC801	51T35479W02	µPD6325	Q832	48T84234F04	2SB1238
IC802	51T93333F01	NJM2904M			
1,000	3,,,5555,01		Q833	48T84234F04	
1			Q834	48T62967F03	CP., DTC124K
			Q835	48T94606F67	CP., DTA123YU
1			Q836	48T62967F03	CP., DTC124K
			Q838	48T56031F01	2SD1266
Trar	nsistors		Q839	48T56031F01	2SD1266
Q004	48T62967F09	CP., DTC114TK	Q840	48T84234F04	2SB1238
Q004 Q005	48T62966F03	CP., DTA124	Q841	48T62967F03	CP., DTC124K
Q003 Q007	48T73888F08	CP., FMG1	Q842	48T84234F04	2SB1238
Q007 Q008	48T62967F03	CP., DTC124K	Q843	48T62967F03	CP., DTC124K
Q009	48T73888F08	CP., FMG1	11	1	
3000			Q844	48T73888F12	CP., FMC2
Q010	48T73888F08	CP., FMG1			
			ـــــا ك		

Symbol No.	Part No.	Description	Symbol No.	Part No.		Description
Diod	es		Capa	citors		
D003 D004 D201 D202 D501	48T68828F11 48T52446F01 48T52445F01 48T52445F01 48T68828F11	1SS133 CP., MA151WK CP., MA151WA CP., MA151WA 1SS133	E010 E011 E012 E013 E014	23S61524F12 23T45365W02 23S61524F39 23S61524F07 23S61524F28	ELY., ELY., ELY., ELY., ELY.,	100µF / 10V 100µF / 10V 0.68µF / 50V 47µF / 6.3V 0.1µF / 50V
D502 D801 D803 D804 D805	48T68828F11 48T81044F01 48T68828F11 48T70933F11 48T84052F11	1SS133 10E2 1SS133 1SS136 11ES2	E015 C016 E016 C017 E017	23S61524F30 08S65128F69 23S61524F28 08S65128F78 23S61524F12	ELY., CP., ELY., CP., ELY.,	0.33μF / 50V 0.01μF 0.1μF / 50V 0.022μF 100μF / 10V
D806 D807 D808 D809 D810	48T64134F01 48T64134F01 48T52446F01 48T52446F01 48T52446F01	CP., DA204K CP., DA204K CP., MA151WK CP., MA151WK CP., MA151WK	C018 C019 C020 C021 C025	08T15399W02 08S65128F69 08S65128F69 08T55390W29 23T82372F19	CP., CP., CP., TF, ELY., (B.P)	0.033µF 0.01µF 0.01µF 0.1µF 2.2µF / 50V
D811 D812 D813 ZD001 ZD501	48T68828F11 48T52445F01 48T52446F01 48T25766W24 48T62934F15	1SS133 CP., MA151WA CP., MA151WK Zener, HZS9C1L Zener, RD4.7MB1	C026 C027 C029 C030 C031	08T55390W31 08T15399W02 08S65128F57 08S82122F23 08S82122F23	TF, CP., CP., CP., CP.,	0.15µF 0.033µF 1000pF 27pF 27pF
ZD801 ZD802 ZD807 ZD811 ZD812	48T62934F38 48T25766W01 48T25766W24 48T25766W24 48T25766W24	Zener, RD9.1MB3 Zener, HZS6A1L Zener, HZS9C1L Zener, HZS9C1L Zener, HZS9C1L	C032 C035 C036 C037 C038	08582122F37 08565128F69 08565128F69 08565128F78 08565128F68	CP., CP., CP., CP., CP.,	100pF 0.01µF 0.01µF 0.022µF 8200pF
ZD813	48T25766W29	Zener, HZS11A3L	C039 C041 C043 C044 C045	08S65128F29 08S65128F69 08S65128F35 08S65128F35 08S82122F37	CP., CP., CP., CP., CP.,	56pF 0.01µF 100pF 100pF 100pF
Coils			C046 C047	08S65128F69 08S65128F69	CP., CP.,	0.01µF 0.01µF
L001 L501 L502	24T16403W19	Inductor., 15µН Inductor., 2.2µН Inductor., 10µН	C048 C049 C050	08S65128F69 08S65128F69 08S65128F69	CP., CP., CP.,	0.01µF 0.01µF 0.01µF
			C051 C210 C211 C212	08S65128F69 08S82122F21 08S82122F21 08T55401W17	CP., CP., CP., TF,	0.01µF 22pF 22pF 2200pF
Cryst X002	als 91T25773W43	7 2MHz	C213	08T55401W17	TF,	2200pF
X501 X502 X503 X504	91T25773W43 91T25773W17 91T15849W02 91T25773W44 91T15285W06		C214 C215 C216 C217 C218	08T15559W26 08T15559W26 08T15559W26 08T15559W26 08T55401W17	TF, TF, TF, TF,	0.12μF 0.12μF 0.12μF 0.12μF 2200pF
			C219 E219	08T55401W17 23T45102W25	TF, ELY.,	2200pF 10μF / 50μV
Swite		Clida CCCE1	C220 E220	08S65128F69 23T45102W25	CP., ELY.,	0.01μF 10μF / 50V
S601	40T25473W02	(FIXED PRE-OUT ON / OFF)	C221	08S65128F69	CP.,	0.01μF

Symbol No.	Part No.		Description		Symbol No.	Part No.	Description	
E221	23T45 102W25	ELY.,	10µF / 50V		C524	08S65128F69	CP.,	0.01μF
	08565 128F69	CP.,	0.01µF	1	C526	08S65128F69	CP.,	0.01µF
	23T45 102W25	ELY.,	10μF / 50V	•	C527	08565128F69	CP.,	0.01µF
E222			0.01μF	1	C528	08582122F37	CP.,	100pF
C223	08S65 128F69	CP.,		i		1	CP.,	100pF
E223	23T45 102W25	ELY.,	10μF / 50V	ľ	C529	08S82122F37	CP.,	loope
5224	00000 139560	CD	0.01µF	1	C530	08S65128F69	CP.,	0.01µF
C224	08S65 128F69	CP.,		I	C530	08565128F69	CP.,	0.01μF 0.01μF
	23T45 102W25	ELY.,	10μF / 50V	- 1				•
E227	23T45 102W25	ELY.,	10μF / 50V		C532	08S65128F69	CP.,	0.01μF
E228	23T45 102W20	ELY.,	0.47μF / 50V	l	C533	08565128F69	CP.,	0.01µF
E229	23T45 102W20	ELY.,	0.47μF / 50V	. 1	C801	08S65128F69	CP.,	0.01µF
5220	23T45 102W25	ELY.,	10µF / 50V	- 1	E801	23T35505W02	ELY.,	2200µF / 16V
E230			•	1	C802	1	CP.,	0.047μF
E233	23T45 102W24	ELY.,	4.7µF / 50V	ľ		08T15399W03		
E234	23T45 102W25	ELY.,	10μF / 50V		E802	23T55378W07	ELY.,	100µF / 35V
E235	23T45 102W25	ELY.,	10μF / 50V		C803	08565128F69	CP.,	0.01µF
E239	23T45 102W21	ELY.,	1μF /50V	ľ	C804	08S65128F69	CP.,	0.01µF
l	2274540214124	FLV	1.1E /FOV	. 1	E004	DOTAED CENAIOF	EIV	100uE / 25V
E240	23T45 102W21	ELY.,	1μF /50V		E804 C805	23T45365W05	ELY., CP.,	100μF / 25V 1000pF
E242	23T45 102W25	ELY.,	10µF / 50V	- 1		08S65128F57		•
E243	23T45102W25	ELY.,	10μF / 50V		E805	23T45102W13	ELY.,	47μF / 25V
E244	23T45102W21	ELY.,	1μF / 50V		C806	08S65128F78	CP.,	0.022µF
E245	23T45 102W21	ELY.,	1μF / 50V	T I	C807	08S65128F47	CP.,	330pF
	2274540314/35	F137	105 / 50) /	i	F007	22564524522	FLV	1 / 50\/
E247	23T45102W25	ELY.,	10μF / 50V		E807	23S61524F32	ELY.,	1μF / 50V
E248	23T45 102W25	ELY.,	10µF / 50V	- 1	E809	23S61524F16	ELY.,	47µF / 16V
E249	23T45102W25	ELY.,	10μF / 50V	1	E810	23S61524F13	ELY.,	10μF / 16V
C501	08565128F78	CP.,	0.022µF		C811	08S65128F78	CP.,	0.022µF
E501	23S61524F13	ELY.,	10 μF / 16V	ŀ	E811	23T55378W12	ELY.,	1μF / 50V
					6043	00005430500	CD.	0.04
C502	08S65128F78	CP.,	0.022µF	1	C812	08S65128F69	CP.,	0.01µF
E502	23S61524F08	ELY.,	100μF / 6.3V	Ī	E812	23T55378W12	ELY.,	1μF / 50V
C503	08S65128F78	CP.,	0.022µF		E814	23S61524F32	ELY.,	1μF / 50V
E503	23S61524F08	ELY.,	100µF / 6.3V	1	E815	23S61524F13	ELY.,	10μF / 16V
C504	08S82122F37	CP.,	100pF		E816	23S61524F13	ELY.,	10 μF / 16V
		FLV	400-5/67		F040	22004524542	FLV	10µF / 16V
E504	23S61524F08	ELY.,	100µF / 6.3V		E818	23S61524F13	ELY.,	
E505	23S61524F32	ELY.,	1μF / 50V	•	E819	23S61524F08	ELY.,	100μF / 6.3V
E506	23S61524F32	ELY.,	1μF / 50V	1	E820	23561524F30	ELY.,	0.33µF / 50V
C507	08582122F37	CP.,	100pF		E824	23T45365W03	ELY.,	220μF / 10V
C508	08S82122F23	CP.,	27pF	- [
	2275527014/15	F. V	4.7	1		[•
E508	23T55378W15	ELY.,	4.7μF / 50V	ı	1			
C509	08S82122F23	CP.,	27pF	ſ			[
E509	23T55378W12	ELY.,	1μF / 50V	· [Recisto	rs (All regist	ors are	hip 1/10W±5%
C510	08582122F29	CP.,	47pF	1	1,631310	unless of	therwise	noted.)
E510	23S61524F08	ELY.,	100μF / 6.3V	ſ	R025	06S64995F53		ohm
c	00065130570	CB	0.022	J	R025	06S64995F77	1	ohm
C511	08S65128F78	CP.,	0.022μF	1		l .		ohm
E511	23561524F13	ELY.,	10μF / 16V	1	R027	06564995F53	1	
C512	08582122F22	CP.,	24pF	1	R029	06\$64996F02	1	ohm
E512	23S61524F08	ELY.,	100μF / 6.3V	l	R030	06S64995F93	4/K	ohm
C513	08S82122F22	CP.,	24pF	Í	D034	00004005503	4-912	a la ma
	22664524544	L. V	2200 / 461/	ļ	R031	06S64995F93		ohm
E513	23S61524F14	ELY.,	22μF / 16V		R032	06564995F61		ohm
C514	08582122F21	CP.,	22pF	ĺ	R033	06S64995F77	l .	ohm
C515	08S82122F21	CP.,	22pF		R034	06S64995F53		ohm
C516	08565128F69	CP.,	0.01µF		R035	06S64995F37	220	ohm
C517	23T82372F19	ELY., (B.P)	2.2μF / 50V	1				
			_	l	R036	06S64995F85	1	ohm
C518	08S65128F69	CP.,	0.01µF		R037	06S64995F77		ohm
C523	08565128F69	CP.,	0.01µF	ľ	R038	06S64995F61	2.2K	ohm

Symbol No.	Part No.		Description	Symbol No.	Part No.		Description
R040	06564995F29		ohm	R280	06S64995F29		ohm
R042	06S64995F61	2.2K	ohm	R281	06S64995F29	100	
R043	06S64995F53	1K	ohm	R282	06S64995F29	100	ohm
R044	06S64995F71	5.6K	ohm	R283	06S64995F29	100	ohm
R045	06S64995F93	47K	ohm	R284	06S64995F63	2.7K	ohm
						2 71/	. 1
R046	06S64995F77	10K		R285 R286	06S64995F63 06S64995F63		ohm ohm
R047	06S64995F77	10K			l '		ohm
R048	06S64995F69	4.7K		R287	06S64995F63	l .	
R049	06S64996F20	560K	· ·	R288	06S64995F53		ohm
R050	06S64995F29	100	ohm	R289	06S64996F26	1101	ohm
R051	06S64996F14	330K	ohm	R290	06S64996F26	1M	ohm
R052	06564995F77	10K	ohm	R297	06564996F26	l 1M	ohm
R053	06T70072F29	100	ohm 1/4W	R298	06S64996F26	l 1M	ohm
R057	06S64995F53	1K		R501	06S64996F02	100K	ohm
R058	06S64995F77		ohm	R502	06S64996F26	1M	
R059	06S64996F02	100K	******	R503	06S64995F93		ohm
R060	06S64995F53	1K	ohm	R504	06S64995F93		ohm
R061	06S64995F53	1K	ohm	R505	06564995F93	47K	ohm
R062	06S64995F53	1K	ohm	R506	06S64995F93	47K	ohm
R244	06S64995F77	10K	ohm	R507	06\$64995F93	47K	ohm
2245	000040005577	101/	ohm	R508	06S64995F93	171	ohm
R245	06S64995F77	2.7K		R509	06564995F93		ohm
R246	06564995F63				06S64995F77	l .	ohm
R247	06S64995F63	2.7K		R510	I .		
R248	06S64995F77		ohm	R511	06564996F10	I .	ohm
R249	06S64995F77	10K	ohm	R512	06S64996F14	330K	ohm
R250	06S64996F26	1M	ohm	R513	06S64995F85	` 22K	ohm
R251	06S64996F26	1M	ohm .	R514	06S64995F85	22K	ohm
R252	06564996F26	1M	ohm	R515	06S64995F85	22K	ohm
R253	06S64996F26	1M	ohm	R516	06S64995F85	22K	ohm
R254	06S64996F26	1M	ohm	R517	06S64995F85	22K	ohm
					06664005505	221	-4
R255	06564996F26		ohm	R518	06S64995F85	i e	ohm
R256	06S64995F93		ohm	R519	06564995F85		ohm
R260	06S64996F02	100K		R520	06S64995F85		ohm
R261	06S64996F02	100K	•	R521	06S64995F85	1	ohm
R262	06S64995F73	6.8K	ohm	R522	06S64995F85	22K	ohm
R263	06S64995F73	6.8K	ohm	R523	06S64995F85	22K	ohm
R264	06S64995F73	6.8K		R524	06S64995F85		ohm
R265	06S64995F73	6.8K		R525	06S64995F85		ohm
R266	06564996F02	100K		R526	06S64995F85	1	ohm
R267	06S64996F02	100K		R527	06S64995F85	I .	ohm
1							
R268	06S64995F85	1	ohm	R528	06S64995F93	1	ohm
R269	06S64995F85	1	ohm	R529	06S64995F69	1	ohm
R270	06S64995F85	1	ohm	R530	06S64995F85	1	ohm
R271	06S64995F85		ohm	R531	06S64995F85		ohm
R272	06S64995F29	100	ohm	R532	06S64995F53	1K	ohm
R273	06S64995F29	100	ohm	R533	06S64995F53	1K	ohm
R273	06S64995F29	1	ohm	R534	06S64995F53		ohm
	06564995F29	i e	ohm	R535	06564995F53	1	ohm
R275			ohm	R536	06S64995F77		ohm
R276 R277	06S64995F85 06S64995F85	22K 22K		R537	06553330F61	l	ohm 1/8W
1 11/2//	30304333103	221					
R278	06S64995F85	22K		R538	06S64995F93		ohm
R279	06S64995F85	22K	ohm	R539	06S64995F85	22K	ohm
L				L	L		

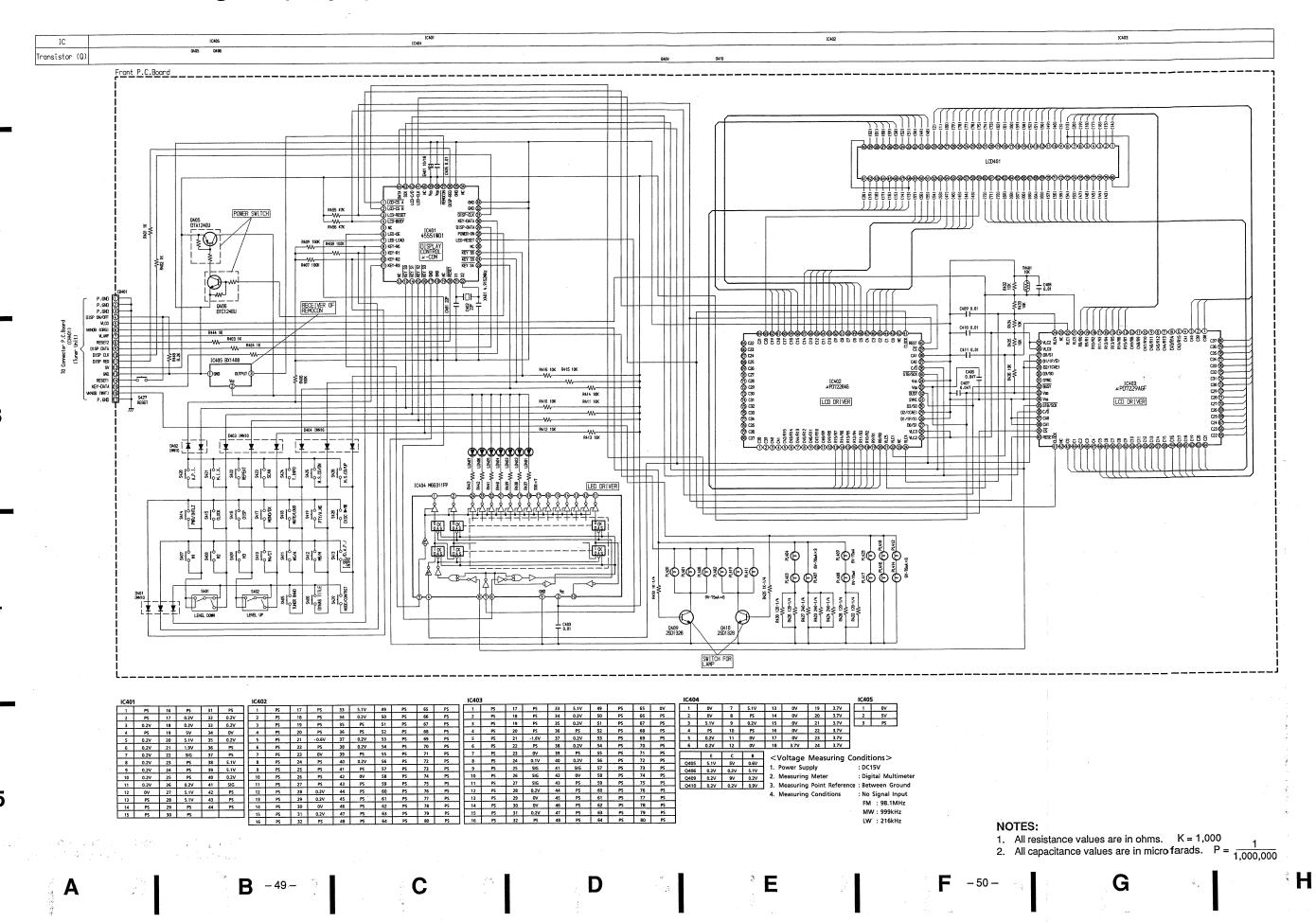
Symbol No.	Part No.		Description		Symbol No.	Part No.	Description
R541	06564995F93	47K	ohm		R863	06T70072F61	2.2K ohm 1/4W
R542	06564995F93		ohm		R864	06S64995F65	3.3K ohm
R543	06564996F02	100K			R865	06S64995F65	3.3K ohm
R544	06564995F77		ohm	1	R866	06T70072F41	330 ohm 1/4W
R544 R545	06564995F61		ohm	ı	R867	06S64995F77	10K ohm
K545	00304993101	2.21	Omn		11007	00304333177	1010 011111
DE46	06S64995F53	11/	ohm		R872	06T70072F45	470 ohm 1/4W
R546	06564995F77		ohm	. [R873	06T70072F45	470 ohm 1/4W
R547	06S64995F53		ohm		R874	06S64995F77	10K ohm
R548		330K			R875	06T70072F61	2.2K ohm 1/4W
R549	06564996F14						10K ohm
R550	06S64995F85	221	ohm		R876	06S64995F77	TOK OIIII
DEE4	06564996F26	11.4	ohm	j	R877	06T70072F53	1K ohm 1/4W
R551			ohm	•	R878	06S64995F53	1K ohm
R552	06S64995F53				10/0	00304333133	IK Omn
R557	06S64995F53		ohm		I		· ·
R558	06S64996F38	10M			1		· ·
R801	06S64995F77	10K	ohm		ı		
R802	06T70072F38	240	ohm 1/4W	!			
R802 R803	06T70072F38		ohm 1/4W	ſ			
B.	06564995F77		ohm //4W			<u> </u>	
R804			ohm			RDS I	P. C. Board
R805	06S64995F77		ohm 1/4W				
R809	06T70072F37	220	011111 17444	Í	IC's		
R810	06S53330F65	3 3K	ohm 1/8W	ł	IC002	51T55054W02	SAA6579T
R811	06S53330F69	1	ohm 1/8W		IC003	51T35503W02	LC7073M
R812	06564995F69		ohm		IC201	51T40941U03	MC14066BFL1
1	06564996F02	100K		1	IC202	51T93338F01	NJM4560E
R813 R817	06564995F77	1	ohm		IC202	51T93338F01	NJM4560E
NO 17	00304333177	101	Omm		10203	311333330101	113111-3002
R818	06T70072F53	1 K	ohm 1/4W		IC204	51T93338F01	NJM4560E
R819	06S53330F77		ohm 1/8W		IC205	51T80136F04	M5238FP
R820	06S53330F61		ohm 1/8W		IC206	51T15630W03	MC14052BFL1
R821	06S64995F77		ohm		IC213	51T93338F01	NJM4560E
R822	06S53330F61	1	ohm 1/8W		10213	31133330101	
11022							
R823	06S64995F77	10K	ohm	1			
R824	06T70072F03	6.8	ohm 1/4W		1		
R825	06T70072F03	1	ohm 1/4W	J	1		
R826	06S64995F77		ohm		l		
R827	06S53330F61		ohm 1/8W		T		
					Tran	sistors	
R828	06S64995F77	10K	ohm		Q211	48T73888F08	CP., FMG1
R831	06T70072F03	6.8	ohm 1/4W	i	Q212	48T73888F08	CP., FMG1
R841	06S64995F77		ohm	Į	Q213	48T62967F21	CP., DTC124TK
R843	06S64995F77		ohm	l	Q828	48T69176F02	2SC3421
R844	06564996F02	100K		Į	Q830	48T83617F04	2SD1863
				•		1	
R845	06T70072F53		ohm 1/4W		Q845	48T63420F01	CP., 2SA1037K
R846	06S64995F65	3.3K	ohm		Q846	48T62967F03	CP., DTC124K
R847	06S64996F02	100K	ohm		1	1]
R848	06S64996F02	100K	ohm			I	
R849	06S64995F61	2.2K	ohm		1		
R850	06\$64995F93		ohm			<u> </u>	
R851	06S53330F85		ohm 1/8W		Diod	es	
R852	06T70072F37		ohm 1/4W	Į.	2,00	,	
R854	06S64995F85	1	ohm	1	D002	48T52446F01	CP., MA151WK
R855	06564995F85	22K	ohm	1	ZD809	48T25766W24	
					ZD810	48T25766W01	Zener, HZS6A1L
R861	06T70072F53		ohm 1/4W			Ī	
R862	06564995F77	10K	ohm				
	1					<u> </u>	

Symbol No.	Part No.	Description	Symbol No.	Part No.		Description
Cross	Crystals			08582122F21	CP.,	22pF
Cryst	a15		C256	08S82122F21	CP.,	22pF
X001	91T45118W18	4.332MHz	C257	08T55390W29	TF,	0.1µF
X002	91T15848W01	CER., Lock 4MHz	E258	23S61524F32	ELY.,	1μF / 50V
7002	311130401101	22111, 2001	E259	23S61524F18	ELY.,	4.7μF / 25V
			5260	23S61524F28	ELY.,	0.1µF / 50V
			E260 C810	08S65128F78	CP.,	0.1μ1 / 30V 0.022μF
			4 1	1 * *	CP.,	0.022μ1 0.01μF
			C813	08S65128F69		0.01μr 100μF / 10V
Capa	citors		E821 E822	23S61524F12 23S61524F13	ELY., ELY.,	10μF / 16V
C001	08S65128F79	CP., 0.027µF				
E001	23S61524F13	ELY., 10µF / 16V	E823	23S61524F13	ELY.,	- 10μF / 16V
C002	08S65128F79	CP., 0.027µF	11			
E002	23S61524F13	ELY., 10µF / 16V				
C003	08S65128F53	CP., 560pF	- 11		1	
2003	00505 1201 50				ļ	
E003	23S61524F33	ELY., 2.2µF / 50V	[]			
C004	08S65128F47	CP., 330pF		<u> </u>	l	1 4/40/47 = 20/
E004	23S61524F13	ELY., 10µF / 16V	Resisto	ors (All resist	ors are ch	nip 1/10W±5% noted.)
C007	08565128F27	CP., 47pF	11	unless o	tnerwise r	iotea.)
C007	08S65128F33	CP., 82pF	R001	06S64995F65	3.3K	ohm
	100000	,	R002	06S64995F65	3.3K	
C201	08582122F47	CP., 270pF	R003	06S64995F29	100	ohm
	23S61524F35	ELY., 4.7µF / 50V	R008	06S64995F61	2.2K	
E201		CP., 270pF	R054	06S64995F64	3К	· ·
C202	08S82122F47		11 11034	00304333104	"	·····
C203	08S65128F53	· ·	R055	06S64995F64	3к	ohm
E203	23S61524F13	ELY., 10μF / 16V	R056	1	10K	
		50 FC0 F		06S64995F77 06S64995F65	3.3K	
C204	08S65128F53	CP., 560pF	R201		3.3K	
E204	23S61524F13	ELY., 10μF / 16V	R202	06S64995F65		
C205	08T55390W17	PF., 0.01μF	R203	06S64996F02	100K	Onm
E205	23S61524F35	ELY., 4.7μF / 50V		0.5554005500	4001	- 1
C206	08T55390W30	TF, 0.12μF	R204	06S64996F02	100K	
		1	R205	06S64995F88	30K	
C207	08S65128F69	CP., 0.01μF	R206	06S64995F88	30K	
E207	23561524F28	ELY., 0.1μF / 50V	R208	06S64995F61	2.2K	
C208	08S65128F71	CP., 0.015μF	R209	06S64996F02	100K	onm
E208	23S61524F32	ELY., 1µF / 50V				
C209	08S65128F71	CP., 0.015µF	R210	06S64995F61	2.2K	
1			R211	06S64995F77	10K	
E209	23S61524F32	ELY., 1µF / 50V	R212	06S64995F77	10K	
E210	23S61524F35	ELY., 4.7µF / 50V	R213	06S64995F77	10K	
E211	23T45102W25	ELY., 10µF/50V	R214	06S64995F76	9.1K	ohm
E212	23T45102W25		H	1		
E213	23T45102W25	1	R215	06S64996F02	100K	
1			R216	06S64995F77	10K	ohm
E214	23T45102W25	ELY., 10µF / 50V	R217	06S64995F77	10K	ohm
E215	23561524F35	ELY., 4.7µF / 50V	R218	06S64995F66	3.6K	ohm
E216	23S61524F35	ELY., 4.7µF / 50V	R219	06S64995F77	10K	ohm
E217	23T45102W25	1		1	1	
E217	23T45102W25	1 '	R220	06S64995F77	10K	ohm
	231,351021123		R221	06S64995F77	10K	
E250	23S61524F32	ELY., 1μF / 50V	R222	06S64995F77	10K	
C251	08S82122F47	CP., 270pF	R223	06S64995F77	10K	
	23S61524F32	ELY., 1µF / 50V	R224	06S64995F77	10K	
E251		CP., 1µF730V	''	10000-0001//	1	
C252	08\$82122F47		R225	06S64995F77	10K	ohm
E252	23S61524F13	ELY., 10μF / 16V	R225	06S64995F97	68K	
	00000000000	GD 3305	8.2	1	68K	
C253	08\$82122F21	CP., 22pF	R227	06564995F97	E .	
E253	23S61524F13	ELY., 10μF / 16V	R228	06S64995F77	10K	The state of the s
C254	08S82122F21	CP., 22pF	R229	06S64995F77	10K	OHIII
		<u> </u>			L	

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R230	06S64995F80	13K ohm			
R231	06564995F80	13K ohm	Į.		
R233	06S64995F77	10K ohm	1		
R234	06S64995F77	10K ohm	i		
R235	06S64995F69	4.7K ohm			
R236	06S64995F85	22K ohm			
R237	06S64995F85	22K ohm	1		
R238	06S64995F85	22K ohm			
R239	06S64995F85	22K ohm			·
R240	06S64995F85	22K ohm			
R241	06S64995F85	22K ohm			
R242	06S64995F85	22K ohm			
R243	06\$64995F85	22K ohm			
R291	06S64995F81	15K ohm			
R292	06564995F81	15K ohm			
2202	06S64995F88	30K ohm			
R293	06S64995F88	30K Ohm			
R294	06564995F75	8.2K ohm	ł	1	
R295 R296	06S64995F75	8.2K ohm		Ì	,
R299	06S64996F12	270K ohm			
	0.577.0077.740	680 ohm 1/4W			
R859	06T70072F49	1K ohm 1/4W			·
R860	06T70072F53 06S64995F77	10K ohm	•		
R879	06564995F69	4.7K ohm		1	
R880 R2001	06564996F02	100K ohm			
K2001	00304330102	10012 0			
R2002	06S64996F02	100K ohm			
VR201	18T60065F13	Variable, 10K ohm			·
	Miss	cellaneous			
			·		
CH401	09T45337W01				
ET001	09T45018W01		ł		·
ET102	01T45631W01 09T25842W12				
ET801	09T16162W05				
JK101	091101024403				
JK201	09T15454W03			1	
JK401	09T45702W01	DIN Connector (13P)			
1					
1					
1					
1			1		

MEMO

Schematic Diagram (Display Unit)



Parts Layout on P.C. Boards and Wiring Diagram (Display Unit)

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4

5

To CB401

To CB401

To CB401

To Cnnector P. C. Board (CH401)

(Tuner Unit)

Front P.C.Board

Orange Color Pattern : Component Side Pattern Blue Color Pattern : Foil Side Pattern

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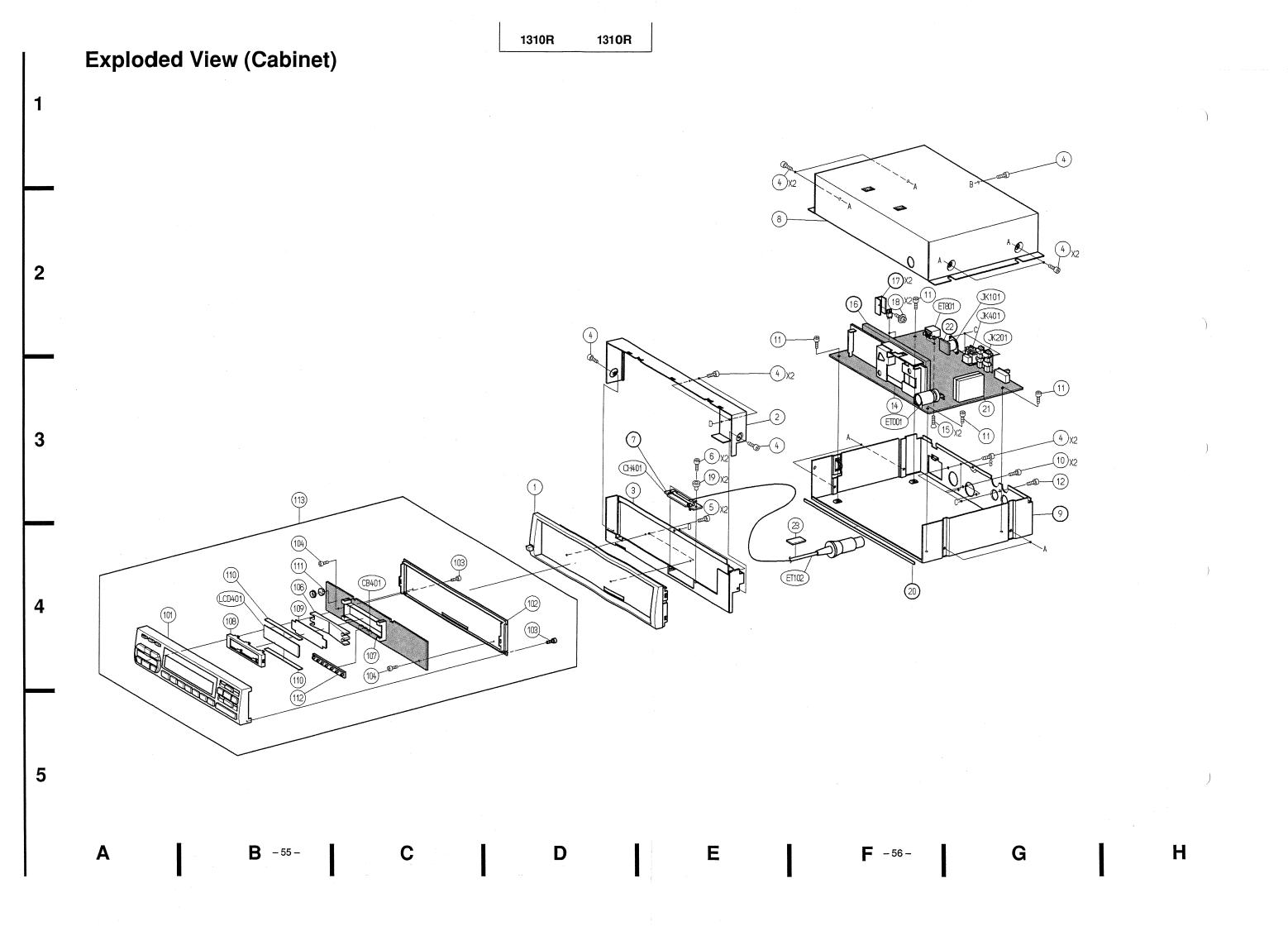
Electrical Parts List (Display Unit)

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor: $\mu F = microfarads$, pF = picofarads

			Capacito	n . μr – mici	otarads, pr=pic	.UIAIAUS
	Resistor		Capacitor	Symbol No.	Part No.	Description
	Carbon Film		Electrolytic	10406	40700476502	CD DD440314/ /DCD)
	Metal Film		Ceramic	LD406	48T90476F02	CP., BR1102W (RED)
	Metal Oxide Fi			LD407	48T90476F02	CP., BR1102W (RED)
	Metal Plate		Tantalum			
	Transistor		Polystyrol			•
	Transformer		Polypropylene			{
CP. =	Chip		Polyethylene			
		PF.=	Polyester Film	1		
	T	1		I		
Symbol	Part No.	Descri	ption	1		
No.			F		<u> </u>	· .
	Front	P. C. Board		Swite		
IC's				S401 S402	40T83612F01 40T83612F01	Tact, SKHFAD (LEVEL DOWN) Tact, SKHFAD (LEVLE UP)
IC401	51T45551W01	45551W01		S402 S405	40T35140W22	Tact, SKQDAB (TUNER BAND)
IC401	51T25797W01	μPD7228AG		\$406	40T35140W22	Tact, SKQDAB (DYNAS TITLE)
		1 '				
IC403	51T35265W01	μPD7229AGF	1	S407	40T35140W22	Tact, SKQDAB (M1)
IC404	51T25966W01	M66311FP		6466	407774 4014/55	T
IC405	51T83524F01	BX1408		5408	40T35140W22	
		· ·		S409	40T35140W22	Tact, SKQDAB (M3)
		1		S410	40T35140W22	
				S411	40T35140W22	Tact, SKQDAB (M5 / H)
		·		S412	40T35140W22	Tact, SKQDAB (M6 / M)
l				1		
	<u> </u>	<u> </u>		5413	40T35140W22	Tact, SKQDAB
Tran	sistors					(T. SEL / D.A.P. / INTRO)
Han	3130013	y-,		S414	40T35140W22	Tact, SKQDAB (PWR / INTLZ)
Q405	48T94606F53	CP., DTA124EU		S415	40T35140W22	Tact, SKQDAB (CLOCK)
Q406	48T94606F03	CP., DTC124EU		S416	40T35140W22	Tact, SKQDAB (DISP)
Q409	48T63788F01	CP., 2SD1328		S417	40T35140W22	Tact, SKQDAB (MONO DX)
Q410	48T63788F01	CP., 2SD1328				,
		, ·	i	S418	40T35140W22	Tact, SKQDAB (MUTE / LOUD)
l				S419	40T35140W22	Tact, SKQDAB (PTY / A. ME)
l			1	5420	40T35140W22	Tact, SKQDAB (A.P.I.)
				S421	40T35140W22	Tact, SKQDAB (M.I.X.)
			į	5422	40T35140W22	Tact, SKQDAB (MILAL)
l				3422	401331400022	Tact, SKODAD (KEFEAT)
Diod	<u></u>			S423	40T35140W22	Tact, SKQDAB (SCAN)
Diod		γ		S424	40T35140W22	Tact, SKQDAB (T. INFO)
D401	48T94471F01	CP., IMN10		S425	40T35140W22	Tact, SKQDAB (M.S. CD / DN)
D402	48T94471F01	CP., IMN10		S426	40T35140W22	Tact, SKQDAB (M.S. CD / UP)
D403	48T94471F01	CP., IMN10		S427		Tact, SKQDAB (RESET)
D404	48T94471F01	CP., IMN10]	.5.551704422	ומנה, אועטאוי (וובטבוי)
	13.3.7.7		1	S428	40T35140\N/22	Tact, SKQDAB (DISC → / II)
			· [S429	40T35140W22	Tact, SKQDAB (MODE / CONTRST
			1	3423	401331404422	Tact, SKODAD (MODE / CONTINS)
1	1		1	1		
]		1	1	:	
LED's	5					
LD401	48T90476F02	CP., BR1102W (RI	ED)			
LD402	48T90476F02	CP., BR1102W (RI				
LD402	48T90476F02	CP., BR1102W (RI				1
LD403 LD404	48T90476F02	CP., BR1102W (RI		1		1
LD404 LD405	1					
LD403	48T90476F02	CP., BR1102W (RI	-U)			
L	L	L		L		I

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description		
Lamps			Resist	ors (All resis unless o	tors are chip 1/10W±5% therwise noted.)		
PL401	65T45587W04	9V-75mA					
PL402	65T45587W05	9V-75mA	R401	06S64995F53	1K ohm		
PL403	65T45353W01	6V-70mA	R402	06S64995F53	1K ohm		
PL404	65T45353W01	6V-70mA	R403	06S64995F53	1K ohm		
PL406	65T45587W07	9V-75mA	R404	06S64995F53	1K ohm		
			R406	06S64996F02	100K ohm		
PL407	65T45353W01	6V-70mA	H				
PL408	65T45353W01	6V-70mA	R407	06S64996F02	100K ohm		
PL409	65T45353W01	6V-70mA	R408	06S64996F02	100K ohm		
PL411	65T45587W06	9V-75mA	R409	06S64996F02	100K ohm		
PL412	65T45353W02	6V-70mA	R410	06S64995F77	10K ohm		
			R411	06S64995F77	10K ohm		
PL414	65T45353W02	6V-70mA]]				
PL416	65T45353W02	6V-70mA	R412	06S64995F77	10K ohm		
PL417	65T45353W02	6V-70mA	R413	06S64995F77	10K ohm		
PL418	65T45353W02	6V-70mA	R414	06S64995F77	10K ohm		
PL419	65T45587W05	9V-75mA	R415	06S64995F77	10K ohm		
			R416	06S64995F77	10K ohm		
PL420	65T45587W04	9V-75mA	11				
PL423	65T45353W02	6V-70mA	R422	06T70072F31	120 ohm 1/4W		
			R423	06T70072F38	240 ohm 1/4W		
			R424	06T70072F38	240 ohm 1/4W		
			R425	06T70072F53	1K ohm 1/4W		
			R426	06T70072F31	120 ohm 1/4W		
		_	II				
			R427	06T70072F38	240 ohm 1/4W		
			R428	06T70072F31	120 ohm 1/4W		
			R430	06T70072F31	120 ohm 1/4W		
			R432	06S64995F77	10K ohm		
			R433	06S64995F77	10K ohm		
Ther	mistor / Crysta	al	II				
TUADA	40702420502	40%	R434	06S64995F77	10K ohm		
TH401	48T93439F03	10K ohm	R435	06S64995F77	10K ohm		
X401	91T25773W27	Crystal, 4.9152MHz	R436	06S64995F77	10K ohm		
			R437	06S64995F41	330 ohm		
			R438	06S64995F41	330 Ohm		
			R439	06S64995F41	330 Ohm		
			R440	06S64995F41	330 Ohm		
			R441	06S64995F41	330 Ohm		
	<u> </u>		R442	06S64995F41	330 Ohm		
Capa	citors		R443	06S64995F41	330 Ohm		
C401	08S82122F21	CP., 22pF	R444	06564005553	1K Ohm		
E401	23T74180F03	CP., 22pr CP. ELY., 10µF / 16V	R444 R448	06S64995F53 06S64995F75	8.2K Ohm		
C402	08S82122F21	CP., 10µF/16V	R448 R450	06364993F73 06T70072F53	1K Ohm 1/4W		
C402	08S65128F69	CP., 22pr CP., 0.01µF	R450 R455	06170072F33	47K Ohm		
C405	08565128F69	CP., 0.01µF	R456	06564995F93	47K Ohm		
C-103	00303120103	ο, υ.υ τμε	N430	00304333733	4/K Omn		
C406	08\$65128F74	CP., 0.047µF	11				
C407	08S65128F74	CP., 0.047µF	11	1			
C407	08S65128F69	CP., 0.047µF	l I				
C409	08S65128F69	CP., 0.01µF	l I	4			
C410	08S65128F69	CP., 0.01µF	11	-			
CTIV	30303120103	υ.υτμε		· .			
C411	08S65128F69	CP., 0.01μF	Miscellaneous				
			CB401	09T45338W01	17P Connector		
			LCD401	65T45618W01	LCD Display		
			L				



Cabinet Assembly Parts List

Notes: • No parts number on parts list are not supplied.

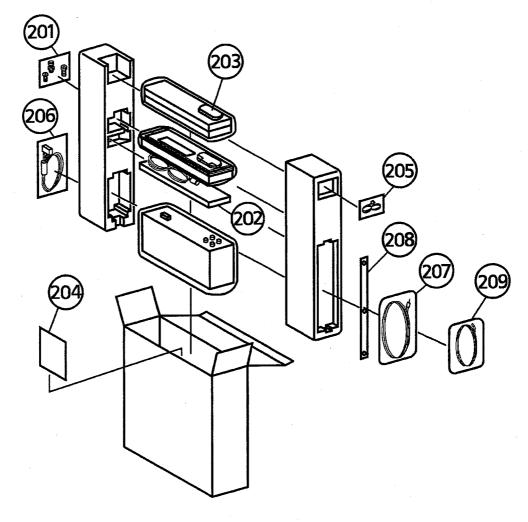
 Parts marked * will need a long delivery time, or may be not supplied in some cases.

						or may be not	supplied in some cases.
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
1	3-D	13T55033W01	Assy., Front Escutcheon				
, 2	3-E	15B50036W01	Cover, Top	j]		
3	3-G	15C50027W01	Cover, Bottom				
4		03544205G34	Screw, Pan (M2.6×5)				
5	4-E	03S70494F10	Screw, Pan (M2.6×10)				
6	3-E	03S38013W13	Screw, Bind (M2.6×6)	l		•	
8	2-E	15C50026W02	Cover, Top	İ			
10		O3S44205G76	Screw, Pan (M2.6×8)				
11		03S44205G48	Screw, Pan (M2.6×5)				
12	3-G	O3S68555F13	Screw, Pan (M3×10)				
14	3-F	77B51061W01	FM / MW / LW Tuner,				
ļ			MB4R101A (FE001)				
15	3-G	03S68555F22	Screw, Countersink (M3×8)	l .]]		
18	2-F	03D40121T06	Screw, W/Double Washer				
	2.5	4.6.4.5000000404	(M2.6×8)				
19	3-E	46A50963W01	Stud, Connector	1			
21	3-G	77B50045W01	DYNAS Unit, MB3R101A				
			(FE002)	ĺ	1 1		
23	4-E	75S50638W01	Cushion, Rubber				
101	4-A	13T55005W02	Assy., Nosepiece				
102	4-D	13T55030W01	Nose, Bottom		1 1		
103	170	03\$68555F19	Screw, Pan (M2×12)				1
104	1	03S68555F34	Screw, Pan (M2×4.5)		1		-
'``				1			
106	4-B	61A50029W01	Lens, LCD				
107	4-C	15B50030W01	Case, LCD	l			
108	4-B	15B50031W01	Cover, LCD	1			
109	4-B	26A50032W01	Sheet, LCD				
110		75T35021W04	Rubber, Electric				
111	4-B	43T55031W01	Spacer, Power				
112	5-B	15T55032W01	Case, LED	1.	. 1		•
*113	3-B	01V51400W29	Assy., Nose Unit	l			
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Packing Assembly Part List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
201 202 203 204 205	01V44300W06 15C50202W01 15D42040W01 68P40870W96 01T96095F08	Carrying, Case			
206 207 208 209	01T25808W15 01T16240W01 07B64552F01 48T71964F02				

Packing Method View



Semi - Conductor Lead Identifications

